



# STIC Search Report

## Biotech-Chem Library

STIC Database Tracking Number: 162378

TO: Ulrike Winkler  
Location: REM-3A39&3C18  
Art Unit: 1648  
Monday, August 22, 2005

Case Serial Number: 09/303510

From: Edward Hart  
Location: Biotech-Chem Library  
REM-1A55  
Phone: 571-272-2512

[edward.hart@uspto.gov](mailto:edward.hart@uspto.gov)

### Search Notes

Examiner Winkler,

Here are the results of the search you requested.

Please feel free to contact me if you have any questions.

Edward Hart

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STIC-Biotech/ChemLib

162378

From: Winkler, Ulrike  
Sent: Friday, August 12, 2005 12:08 PM  
To: STIC-Biotech/ChemLib

STIC,

Please search the interference files for SEQ ID NO 5 and 6 of 09/303510.

Thanks, Ulrike

Ulrike Winkler, Ph.D.  
Patent Examiner, Art Unit 1648  
Remsen 3A39 / Mail Box 3C18  
tel. 571-272-0912  
fax. 571-273-0912

CRFE

\*\*\*\*\*

STAFF USE ONLY

Searcher: \_\_\_\_\_  
Searcher Phone: 2- \_\_\_\_\_  
Date Searcher Picked up: 8/17/05  
Date Completed: 8/22/05  
Searcher Prep/Rev. Time: \_\_\_\_\_  
Online Time: \_\_\_\_\_

\*\*\*\*\*

Type of Search

NA#: 1 AA#: 1  
Interference: \_\_\_\_\_ SPDI: \_\_\_\_\_  
S/L: \_\_\_\_\_ Oligomer: \_\_\_\_\_  
Encode/Transl: \_\_\_\_\_  
Structure#: \_\_\_\_\_ Text: \_\_\_\_\_  
Inventor: \_\_\_\_\_ Litigation: \_\_\_\_\_

\*\*\*\*\*

Vendors and cost where applicable

STN: \_\_\_\_\_  
DIALOG: \_\_\_\_\_  
QUESTEL/ORBIT: \_\_\_\_\_  
LEXIS/NEXIS: \_\_\_\_\_  
SEQUENCE SYSTEM: 8/17/05  
WWW/Internet: \_\_\_\_\_  
Other(Specify): \_\_\_\_\_

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# STIC SEARCH RESULTS FEEDBACK FORM

## Biotech-Chem Library

Questions about the scope or the results of the search? Contact *the searcher or contact*:

Mary Hale, Information Branch Supervisor  
Remsen Bldg. 01 D86  
571-272-2507

## Voluntary Results Feedback Form

➤ I am an examiner in Workgroup:  Example: 1610

➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature  
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC-Biotech-Chem Library Remsen Bldg.



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GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 19, 2005, 23:16:32 ; Search time 219 Seconds  
(without alignments)

8069.310 Million cell updates/sec

Title: US-09-303-510-5

Perfect score: 1080

Sequence: 1 gttctgtgtctctcgga.....tggttggtggtgacgaat 1080

Scoring table: IDENTITY NUC

Gapop 10.0, Gapext 1.0

Searched: 1202784 seqs, 81813859 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- 1: /cgn2\_6/ptodata/1/ina/5A COMB.seq.\*
- 2: /cgn2\_6/ptodata/1/ina/5B COMB.seq.\*
- 3: /cgn2\_6/ptodata/1/ina/6A COMB.seq.\*
- 4: /cgn2\_6/ptodata/1/ina/6B COMB.seq.\*
- 5: /cgn2\_6/ptodata/1/ina/PTUS COMB.seq.\*
- 6: /cgn2\_6/ptodata/1/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1080	100.0	1080	4	US-09-303-040-5
2	580.6	53.8	1424	3	US-09-326-186B-226
3	580.6	53.8	1424	4	US-09-441-411-21
4	580.6	53.8	1428	5	PCT-US94-09642-1
5	580.6	53.8	1600	4	US-09-949-016-5261
6	552.6	51.2	1161	3	US-08-205-697A-24
7	552.6	51.2	1161	3	US-08-702-525-24
8	552.6	51.2	1161	4	US-09-837-867A-24
9	552.6	51.2	1161	5	PCT-US95-02576-24
10	533.2	49.4	1002	3	US-09-039-982A-33
11	533.2	49.4	1002	3	US-09-039-641-33
12	533.2	49.4	1002	3	US-09-039-762A-33
13	533.2	49.4	1002	3	US-09-042-92D-33
14	533.2	49.4	1002	3	US-08-913-612A-33
15	533.2	49.4	1002	4	US-10-266-463A-33
16	533.2	49.4	1112	4	US-09-441-411-25
17	533.2	49.4	1120	2	US-08-456-104-1
18	533.2	49.4	1120	2	US-08-101-624-1
19	533.2	49.4	1120	3	US-08-479-744-1
20	533.2	49.4	1120	3	US-08-280-757B-1
21	533.2	49.4	1120	3	US-08-205-697A-22
22	533.2	49.4	1120	3	US-08-702-525-22
23	533.2	49.4	1120	3	US-08-403-253A-3
24	533.2	49.4	1120	4	US-08-435-816A-3
25	533.2	49.4	1120	4	US-09-425-762-1
26	533.2	49.4	1120	4	US-09-837-867A-22
27	533.2	49.4	1120	4	US-09-206-132-1

28	533.2	49.4	1120	4	US-09-425-516-1	Sequence 1, Appli
29	533.2	49.4	1120	5	PCT-US95-02576-22	Sequence 22, Appl
30	528.2	48.9	972	3	US-08-848-760B-11	Sequence 11, Appl
31	528.2	48.9	972	4	US-09-826-025-11	Sequence 11, Appl
32	434.6	40.2	751	3	US-09-039-982A-34	Sequence 34, Appl
33	434.6	40.2	751	3	US-09-039-641-34	Sequence 34, Appl
34	434.6	40.2	751	3	US-09-039-762A-34	Sequence 34, Appl
35	434.6	40.2	751	3	US-09-042-492D-34	Sequence 34, Appl
36	434.6	40.2	751	3	US-08-913-612A-34	Sequence 34, Appl
37	434.6	40.2	751	4	US-10-266-463A-34	Sequence 34, Appl
38	429.6	39.8	1056	4	US-09-756-983-17	Sequence 17, Appl
39	335.4	31.1	1261	3	US-08-205-697A-12	Sequence 12, Appl
40	335.4	31.1	1261	3	US-08-702-525-12	Sequence 12, Appl
41	335.4	31.1	1261	4	US-09-837-867A-12	Sequence 12, Appl
42	335.4	31.1	1261	5	PCT-US95-02576-12	Sequence 12, Appl
43	329.6	30.5	1151	2	US-08-456-104-3	Sequence 3, Appli
44	329.6	30.5	1151	3	US-08-205-697A-20	Sequence 20, Appl
45	329.6	30.5	1151	3	US-08-702-525-20	Sequence 20, Appl

ALIGNMENTS

RESULT 1

US-09-303-040-5  
; Sequence 5, Application US/09303040  
; Patent No. 6555671  
; GENERAL INFORMATION:  
; APPLICANT: Winslow, Barbara J.  
; APPLICANT: Cochran, Mark D.  
; TITLE OF INVENTION: Recombinant Virus Expressing Foreign DNA Encoding  
; TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CD28, Feline CTLA-4 or  
; TITLE OF INVENTION: Feline Interferon-gamma And Uses Thereof  
; FILE REFERENCE: 54957-B  
; CURRENT APPLICATION NUMBER: US/09/303,040  
; CURRENT FILING DATE: 1999-04-30  
; EARLIER APPLICATION NUMBER: 60/083,870  
; EARLIER FILING DATE: 1998-05-01  
; NUMBER OF SEQ ID NOS: 82  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 1080  
; TYPE: DNA  
; ORGANISM: feline CD86  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (63)..(1052)  
US-09-303-040-5

Query Match	100.0%	Score 1080;	DB 4;	Length 1080;
Best Local Similarity	100.0%	Pred. No. 0;		
Matches 1080;	Conservative	0;	Mismatches	0;
			Indels	0;
			Gaps	0;
Qy	1	GTTCCTGTGTCTCTCGGAAATGTCACGTGAGCTTATATCATCTGTGCTCTGGAGCTGCAGT	60	
Db	1	GTTCCTGTGTCTCTCGGAAATGTCACGTGAGCTTATATCATCTGTGCTCTGGAGCTGCAGT	60	
Qy	61	GGATGGGCATTTGTGACAGCAGCTATGGAGTGTGACACTCTCTTGTGATGCGCCCTCC	120	
Db	61	GGATGGGCATTTGTGACAGCAGCTATGGAGTGTGACACTCTCTTGTGATGCGCCCTCC	120	
Qy	121	TGCTCTCTGTGTCTTCTTCATCAAGAGTCAAGCATATTTCAACAGACTGGAGAACTGC	180	
Db	121	TGCTCTCTGTGTCTTCTTCATCAAGAGTCAAGCATATTTCAACAGACTGGAGAACTGC	180	
Qy	181	CATGCCATTTTCAAACTCTCAAAACATAGCTGGATGAGCTGGTAGTATTTTGGCAGG	240	
Db	181	CATGCCATTTTCAAACTCTCAAAACATAGCTGGATGAGCTGGTAGTATTTTGGCAGG	240	
Qy	241	ACCAGATATAGCTGGTTCTGTATGAGATATTCAGAGCAAGAGACCCCTCAAAATGTTTC	300	
Db	241	ACCAGATATAGCTGGTTCTGTATGAGATATTCAGAGCAAGAGACCCCTCAAAATGTTTC	300	





QY 1012 TTAACATTTTGAAGACAGCCTCAGGGGACCAAAATCA 1048  
|||||  
Db 1070 TTAAGAGTTCGAGACATCTTTCATCGCACAAAGTGA 1106

## RESULT 3

US-09-441-411-21

; Sequence 21, Application US/09441411

; Patent No. 6734172

; GENERAL INFORMATION:

; APPLICANT: Scholler, Nathalie B.

; APPLICANT: Disis, Mary L.

; APPLICANT: Hellstrom, Ingegerd

; APPLICANT: Hellstrom, Karl Erik

; TITLE OF INVENTION: SURFACE RECEPTOR ANTIGEN VACCINES

; FILE REFERENCE: 730033.409

; CURRENT APPLICATION NUMBER: US/09/441.411

; NUMBER OF SEQ ID NOS: 26

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 21

; LENGTH: 1424

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-441-411-21

Query Match 53.8%; Score 580.6; DB 4; Length 1424;

Best Local Similarity 75.9%; Pred. No. 2.3e-178;

Matches 802; Conservative 0; Mismatches 234; Indels 21; Gaps 6;

QY 1 GTTCTGTGTCCTCGGGAATGTCACGTGACTTATACATCTGCTCTG---GGAGCTGC 57  
Db 62 GCTTCTGTGTCCTTGGGAATGCTGCTGTATGTCATCTGCTCTCTTTTGGAGCTAC 121  
QY 58 AGTGGATGGCATTTGTGACAGCACTATGGGACTGAGTCACTCTCTTGTGATGGCCC 117  
Db 122 AGTGGACAGCATTTGTGACAGCACTATGGGACTGAGTAACTCTCTTTGTGATGGCCT 181  
QY 118 TCTGTCTCTGCTGTTTCTTCCATGAAGAGTCAAGCATATTTCAACAGCACTGGAGAAC 177  
Db 182 TCTGTCTCTGCTGCTCTCTGAGATTCAAGCTTATTTCAATGAGACTGCAGACC 241  
QY 178 TGGCATGCCATTTTACAACTCTCAAAACATAGCTGGATGAGCTGGTAGTATTTTGGC 237  
Db 242 TGGCATGCCAATTGGCAACTCTCAAAACCAAGCCTGAGTGTAGTAGTATTTTGGC 301  
QY 238 AGGACAGGATAAGCTGGTCTGTATGAGATATTGAGAGGCAAGAACCCCTCAAAATG 297  
Db 302 AGGACAGGAAAACTTGGTCTGAATGAGGTATATTAGGCAAGAGAAAAATTTGACAGTG 361  
QY 298 TTGATCTCAATATAAGGCGGTACAGCTTTGCAAGGCAACTGGACCCCTGAGACTCC 357  
Db 362 TTCAATTCAGATATATGGGCGGCACAAAGTTTGAATTCGGACAGTTGGACCCCTGAGACTTC 421  
QY 358 ACAATGTTTCAGATCAAGGCAAGGGACATATCACTGTTTCATTTCATTATAAAGGGCCCA 417  
Db 422 ACAATCTTCAGATCAAGGCAAGGGCTTGTATCAATGTATCATCCATCAAAAAGGCCCA 481  
QY 418 AAGACTAGTTCCTCATGCAAAATAGTTCCTGACCTATCAGTGTCTGCTTAACTTCAGTC 477  
Db 482 CAGGAATGATTCGATCCACAGATGAATCTGAACTGTGCTGCTTAACTTCAGTC 541  
QY 478 AACCTGAAATAACAGTAACTTCTTAATAGACAGAAAAATTCGGCATCAATAAATTTGACCT 537  
Db 542 AACCTGAAATAGTACCAATTTCTTAATATAACAGAAAA---TGTGTACATAAATTTGACCT 598  
QY 538 GCTCATCTATACAGGTTTACCCAGAACCTTAAGAGATGATATTTTCAGCTAAACACTGAGA 597  
Db 599 GCTCACTATACAGGTTTACCCAGAACCTTAAGAGATGATGTTTGTCTAAGAACCAAGA 658  
QY 598 ATTCAACTACTAGTATGATCTGTCTATGAAGAAATCTCAAAATAATATGTCAGAGAACTGT 657  
|||||

Db 659 ATTCAACTATCGAGTATGATGTTATTATGCAAGAAATCTCAAGATATATGTCACAGAACTGT 718  
QY 658 ACAACGTTTCTATCAGCTTGCCTTTTTCAGTCCCTGAAG---CACACAATGTGAGCGTCT 714  
Db 719 ACGAGCTTTCCATCAGCTTGTCTGTTTTCATTCCCTGATGTTTACGAGCAATATGACCATCT 778  
QY 715 TTTGTGCCCTGAAACTGGAGACACTGGAGATGCTCTCCCTACCTTTTCAATATAGATG 774  
Db 779 TCTGTATTCTGGAAACTGACA---AGACGCGGCTTTTATCTTCCACCTTTCTCTATAG--- 832  
QY 775 CACAACCTAAGGATAAAGACCTCGAACAAGGCCACTTCCCTCTGCTGATTTGGCGCTGTACTTG 834  
Db 833 ---AGCTTGAGGACCTCAGCCTCCCGACACACATTCCTTGGATTACAGCTGTACTTC 889  
QY 835 TAATGTTTGTGTTTGTGGGATGTTGCTTTTAAACACACTAAGGAAAAGGAAGAAGA 894  
Db 890 CACAGTTATTATATGTTGATGTTTCTGCTTAATCTATGAAATGGAAGAAGAAGA 949  
QY 895 AGCAGCTGGCCCTCTCATGAATGTGAACCATCAAAAGGGAGAGAAAAAGAGAGCAAC 954  
Db 950 AGCGGCTCGCAACTCTTATAATGTGGAACCAACACAAATGGAGAGGGAAGAGAGTGAAC 1009  
QY 955 AGACCAACGAAGAGTACCATACACGTACCTCAGAGATCTGATGAAGCCAGTGTG--- 1011  
Db 1010 AGACCAAGAAAGAGAAAAATCCATATACCTGAAAGATCTGATGAAGCCAGCGTGT 1069  
QY 1012 TTAACATTTTGAAGACAGCCTCAGGGGACAAAAATCA 1048  
Db 1070 TTAAGATTCGAGACATCTTCATGCGACAAAAGTGA 1106

## RESULT 4

PCT-US94-09642-1

; Sequence 1, Application PC/TUS9409642

; GENERAL INFORMATION:

; APPLICANT:

; TITLE OF INVENTION: Purified Mammalian CTLA-4 Binding

; TITLE OF INVENTION: Protein and Related Reagents

; NUMBER OF SEQUENCES: 2

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Schering-Plough Corporation, M-3-W

; STREET: One Giralda Farms

; CITY: Madison

; STATE: New Jersey

; COUNTRY: USA

; ZIP: 07940-1000

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: Apple Macintosh Iici

; OPERATING SYSTEM: System Software 7.1

; SOFTWARE: Microsoft Word 5.1a

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: PCT/US94/09642

; FILING DATE:

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/120,606

; FILING DATE: 13-SEP-1993

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/116,882

; FILING DATE: 03-SEP-1993

; ATTORNEY/AGENT INFORMATION:

; NAME: Blasdale, John H. C.

; REGISTRATION NUMBER: 31,895

; REFERENCE/DOCKET NUMBER: DX0390K1

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 201-822-7398

; TELEFAX: 201-822-7039

; INFORMATION FOR SEQ ID NO: 1:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 1428 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

;  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 152..1123  
PCT-US94-09642-1

Query Match 53.8%; Score 580.6; DB 5; Length 1428;  
Best Local Similarity 75.9%; Pred. No. 2.3e-178;  
Matches 802; Conservative 0; Mismatches 234; Indels 21; Gaps 6;

QY 1 GTTCTGTGTTCTCTCGGAATGTCACCTGAGCTTATACATCTGTCTCTG---GGAGCTGC 57  
DB |||||  
66 GCTTCTGTGTTCTCTCGGAATGTCGTGCTTATGCACTGTGCTCTTTTGGAGCTAC 125  
QY 58 AFTGAGTGGCAATTTGTGACAGCACTATGGGACTGAGTCACTCTCTTGTGTGATGGCCC 117  
DB |||||  
126 AGTGGACAGCAATTTGTGACAGCACTATGGGACTGAGTAACATTTCTTTGTGTGGCCT 185  
QY 118 TCTGTCTCTGTGTTCTTCCATGAAGTCAAGCATATTTCAACAAGACTGGAGAAC 177  
DB |||||  
186 TCTGTCTCTGTGTTCTTCCATGAAGTCAAGCATATTTCAACAAGACTGGAGAAC 245  
QY 178 TGCATGTCATTTTACAACTCTCAAAACATAAGCTGTGATGAGTGTAGTATTTTGGC 237  
DB |||||  
246 TGCATGTCATTTTACAACTCTCAAAACATAAGCTGTGATGAGTGTAGTATTTTGGC 305  
QY 238 AGGACGAGTAAGCTGTGTTCTGTATGAGATATTCAGAGCAAAAGAACCCCTCAAAATG 297  
DB |||||  
306 AGGACGAGTAAGCTGTGTTCTGTATGAGATATTCAGAGCAAAAGAACCCCTCAAAATG 365  
QY 298 TTTCAATCAAAATAGGGCCGTACAAAGCTTTTCAAGGACACTGGACCTGAGACTCC 357  
DB |||||  
366 TTTCAATCAAAATAGGGCCGTACAAAGCTTTTCAAGGACACTGGACCTGAGACTTC 425  
QY 358 ACAATGTTTCAGATCAAGGACCAAGGCACATATCACTGTTTTCATTATATAAGGGCCCA 417  
DB |||||  
426 ACATCTTCAGATCAAGGACCAAGGCCTGTATCAATGTATCATCATCAAAAGGCCCA 485  
QY 418 AAGGACTAGTTCCTATGCAACAAATGAGTTCGACCTATGAGTGTGCTTAACCTCAGTC 477  
DB |||||  
486 CAGGATGATTTGCATCCACCAAGATGAATTTCTGAACTGTGAGTGTGCTTAACCTCAGTC 545  
QY 478 AACCTGAATAACAGTAACTTTTAATAGACAGAAATTTCTGCAATATATAATTTGACCT 537  
DB |||||  
546 AACCTGAATAACAGTAACTTTTAATAGACAGAAATTTCTGCAATATATAATTTGACCT 602  
QY 538 GCTCATCTATACAAAGGTTACCCAGAACCTAAGGAGATGTATTTTCAGCTAAAACACTGAGA 597  
DB |||||  
603 GCTCATCTATACAAAGGTTACCCAGAACCTAAGGAGATGTATTTTCAGCTAAAACACTGAGA 662  
QY 598 ATTCAACTTAAGTATGATGCTGTGATGAAGAAATCTCAAAATATGTGACAGAACTGT 657  
DB |||||  
663 ATTCAACTTAAGTATGATGCTGTGATGAAGAAATCTCAAAATATGTGACAGAACTGT 722  
QY 658 ACAAGCTTTCTACAGCTGCTTTTTCAGTCCCTGAG---CACAAATGTGAGGCTCT 714  
DB |||||  
723 ACAAGCTTTCTACAGCTGCTTTTTCAGTCCCTGAG---CACAAATGTGAGGCTCT 782  
QY 715 TTTTGTGCTTGAACCTGGAGACACTGGAGATGCTGCTCTCCCTTACCTTTCAATATAGATG 774  
DB |||||  
783 TCTGTATTCTGGAACCTGACA---AGACGGGCTTTTATCTTCACTCTCTATAG--- 836  
QY 775 CACAACTTAAGTAAAGCCCTGAACAAGGCCACTTCTCTGATTTGGGCTGTACTTGG 834  
DB |||||  
837 ---AGCTTGAAGCCCTCAGCTTCCCGACACACATTTCTTGGATTACAGCTGTACTTTC 893  
QY 835 TAATGTTTGTGTTTGTGGGATGGTGTCTTTTAAACACTTAAGGAAAGGAAGAAGA 894  
DB |||||  
894 CAACAGTTATATATGTGATGGTGTCTGTCTAATTTCTATGGAATGGAAGAAGAAGA 953  
QY 895 AGCAGCTGGCCCTCTCATGAATGTGAACCAATCAAAAGGGGAGAGAAAGAGCAAAAC 954  
DB |||||

DB 954 AGCGGCTCGCAACTTTTATAAATGTGGAACCAACACAAATGGAGGGAAGAGTGAAC 1013  
QY 955 AGACCAACGAAAGAGTACCATACCGACTACCTGAGAGATCTGATGAAGCCGAGTGTG--- 1011  
DB |||||  
1014 AGACCAAGAAAGAGAGAAAAATCCATATACCTGAAAGATCTGATGAAGCCGAGTGTG 1073  
QY 1012 TTAAACATTTTGAAGCAGCCTCAGGGGACAAAAATCA 1048  
DB |||||  
1074 TTAAAGATTGGAAGACATCTTCATGCGACAAAAGTGA 1110

RESULT 5  
US-09-949-016-5261  
; Sequence 5261, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; PRIOR FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 5261  
; LENGTH: 1600  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-5261

Query Match 53.8%; Score 580.6; DB 4; Length 1600;  
Best Local Similarity 75.9%; Pred. No. 2.5e-178;  
Matches 802; Conservative 0; Mismatches 234; Indels 21; Gaps 6;  
QY 1 GTTCTGTGTTCTCTCGGAATGTCACCTGAGCTTATACATCTGTCTCTG---GGAGCTGC 57  
DB 62 GCTTCTGTGTTCTCTCGGAATGTCGTGCTTATGCACTGTGCTCTTTTGGAGCTAC 121  
QY 58 AGTGAATGGCAATTTGTGACAGCACTATGGGACTGAGTCACTCTCTCTGTGATGGCCC 117  
DB |||||  
122 AGTGAATGGCAATTTGTGACAGCACTATGGGACTGAGTAACATTTCTTTGTGTGGCCT 181  
QY 118 TCTGTCTCTGTGTTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAAC 177  
DB |||||  
182 TCTGTCTCTGTGTTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAAC 241  
QY 178 TCCCATGCAATTTTCAAACTCTCAAAACATAAGCTGTGATGAGCTGTGATGATTTTGGC 237  
DB |||||  
242 TGCATGCAATTTTCAAACTCTCAAAACATAAGCTGTGATGAGCTGTGATGATTTTGGC 301  
QY 238 AGGACGAGTAAGCTGTTCTGTATGAGATATTCAGAGCAAAAGAGACCCCTCAAAATG 297  
DB |||||  
302 AGGACGAGTAAGCTGTTCTGTATGAGATATTCAGAGCAAAAGAGATTTTGAAGTGTG 361  
QY 298 TTTCAATCAAAATAGGGCCGTCAAAAGCTTTTGAAGGACAACTGGACCTGGAGACTCC 357  
DB |||||  
362 TTTCAATCAAAATAGGGCCGTCAAAAGCTTTTGAAGGACAACTGGACCTGGAGACTTC 421  
QY 358 ACAATGTTTCAGATCAAGGACAAAGGCCATATCACTGTTTCAATTTATAAGGGCCCA 417  
DB |||||  
422 ACAATGTTTCAGATCAAGGACAAAGGCCCTGTATCAATGTATCATCCATCAAAAGGCCCA 481  
QY 418 AAGGACTAGTTCCTATGCAACAAATGAGTTCGACCTATCAGTGTGCTGTACTTCAGTC 477  
DB |||||  
482 CAGGATGATTTGCATCCACCAAGTGAATTTCTGAACTGTGAGTGTGCTTAACCTCAGTC 541  
QY 478 AACCTGAATAACAGTAACTTTCTAATAGAACAGAAAAATTTCTGGCATCATAAATTTGACCT 537

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Db 542 AACCTGAAATAGTACCAATTTCTAATAATAACAGAAAA---TGCTACATAAAATTTGACCT 598
Qy 538 GCTCATCTATACAAAGTTTACCCAGAACCTAAGGAGATGTAATTTTCAGCTAAACACTGAGA 597
Db 599 GCTCATCTATACAGGGTTACCCAGAACCTAAGAGATGAGTGTGTTTGTGAAGAACCAAGA 658
Qy 598 ATTCAACTACTAAGTATGATCTGTCATGAGAAATCTCAAAATAATGTCAGACAACTGT 657
Db 659 ATTCAACTATCAGTATGATGATATATGACAGAAATCTCAAGATAATGTCACAGAACTGT 718
Qy 658 ACAAGTTTCTATCAGCTGCTGCTTTTTCAGTCCCTGAAG---CACAAATGTGAGGCTCT 714
Db 719 ACAGAGTTTCTATCAGCTGCTGCTTTTTCATTTCCCTGATGTTTACGAGCAATATGACCATCT 778
Qy 715 TTTCTGCTCGAACTGAGACACTGGAGATGCTGCTCCCTACCTTTTCAATATAGATG 774
Db 779 TCTGTATTTGGAACACTGACA---AGACGGGCTTTTATCTTTCACCTTTTCTCTATAG--- 832
Qy 775 CACAACCTAAGGATAAAGACCCCTGAACAAGGCCACTTCTCTGATTCGCGCTGACTTG 834
Db 833 ---AGCTTGAGGACCTCAGCCTCCCCAGACACATTCCTTGGATTACAGCTGACTTC 889
Qy 835 TAATGTTTGTGTTTGTGGGATGTTGTCCTTGAACCACTTAAACACTAAGGAAAGGAGAAAG 894
Db 890 CAACAGTTATATATGTTGATGTTTCTGCTCTAAATTCATGGAATGGAAGAAAGA 949
Qy 895 AGCAGCTGCCCCCTCTCATGAAATGAAACCATCAAAAGGGAGAGAAAGAGAGCAAC 954
Db 950 AGCGGCTCGCACTCTTATAAATGTGGAACCAACACAAATGGAGAGGGAAGAGAGTGAAC 1009
Qy 955 AGACCAAGAAAGAGTAGTACCATACACAGTACCTGAGAGATCTGATGAAGCCAGTGTC--- 1011
Db 1010 AGACCAAGAAAGAAAGAAATCCATATACCTGAAAGATCTGATGAAGCCAGCTGTTT 1069
Qy 1012 TTAACATTTTGAAGACAGCCTTCAGGGGACAAAAATCA 1048
Db 1070 TTAAGAGTTCGAAGACATCTTCATGCGCAAAAGTGA 1106
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## RESULT 6

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US-08-205-697A-24
; Sequence 24, Application US/08205697A
; Patent No. 6218510
; GENERAL INFORMATION:
; APPLICANT: Sharpe, Arlene H.
; APPLICANT: Borriello, Francescopaulo
; APPLICANT: Freeman, Gordon J.
; APPLICANT: Nadler, Lee M.
; TITLE OF INVENTION: No. 6218510el Forms of T Cell Costimulatory Molecules
; TITLE OF INVENTION: and Uses Therefor
; NUMBER OF SEQUENCES: 61
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 State Street, suite 510
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/205,697A
; FILING DATE: 02-Mar-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Mandragouras, Amy E.
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: BWI-120
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
```

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; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 24:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1161 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 148..1134
; US-08-205-697A-24
```

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Query Match 51.2%; Score 552.6; DB 3; Length 1161;
Best Local Similarity 74.6%; Pred. No. 2,7e-169;
Matches 802; Conservative 0; Mismatches 234; Indels 39; Gaps 7;

Qy 1 GTTCTGTGTTCTCTCGGAATGTCATGAGCTTATACATCTGGTCTCTG---GGAGCTGC 57
Db 62 GCTTCTGTGTTCTCTCGGAATGCTGCTGCTTATGCTCTGTTTGGAGCTAC 121
Qy 58 AGTGGATGGGCATTTGTGACA-----GCATATGGGACTGAGTCACA 99
Db 122 AGTGGACAGGCATTTGTGACAGCACTATGATCCCACTGCTGAGCTGAGTAACA 181
Qy 100 CTCTCTGTTGATGGCCCTCTCTCTCTGTTTCTCCATGAAGAGTCAAGCATATT 159
Db 182 TTCTCTTGTGATGGCTTCTCTCTCTGTTGCTGCTCTCTGAAAGATTCAGCTTATT 241
Qy 160 TCAACAAGACTGGAGAACTGCCATGCCATTTTACAACTCTCAAAAACATAGCCCTGGATG 219
Db 242 TCAATGAGACTGCAGACCTGCCATGCCAATTTGCAAACTCTCAAAACCAAGCCTGAGTG 301
Qy 220 AGCTGTTAGTATTTTGGCAGGACAGGATTAAGCTGGTTCTGTATGAGATATTACAGAGCA 279
Db 302 AGCTAGTAGTATTTTGGCAGGACAGGAAACTTGGTTCTGAAATGAGGTATACTTAGGCA 361
Qy 280 AAGAGAACCTCAAAATGTTTCATCTCAAAATATAAGGCCGTACAAAGCTTTTGACAAGGACA 339
Db 362 AAGAGAAATTTGACAGTTCNTTCCAAATATATGGGCCGACAAAGTTTGAATTCGAGACA 421
Qy 340 ACTGGACCTTGAGACTCCACAATGTTTCAGATCAAGGACAAGGGCACAATATCATCTGTTTCA 399
Db 422 GTTGGACCTTGAGACTTCACAATCTTCAGATCAAGGACAAGGGCTTGTATCAATGTATCA 481
Qy 400 TTCATTTAAAGGGCCCAAGGACTGTTCCCATGCAACCAATAGTTCGACCTATCAG 459
Db 482 TCCATCAAAAAAGCCCAAGGAATGATTCGCATCCACAGATGAATTTCTGAACTGTGAG 541
Qy 460 TGCTTGTAACTTCAGTCAACCTGAAATACAGTAACTTCTAATAGAACAGAAAATCTG 519
Db 542 TGCTTGTAACTTCAGTCAACCTGAAATAGTACCAATTTCTAATATACAGAAA---TG 598
Qy 520 GCATCAATAATTTGACCTGCTCATCTATACAAGGTTTACCCAGAACCTTAAGGAGATGTATT 579
Db 599 TGTACATAAATTTGACCTGCTCATCTATACACGGTTACCCAGAACCTTAAGAGATGATG 658
Qy 580 TTCAGCTAAACACTGAGAAATTCAACTACTAAGTATGATATGTCATGAGAAATCTCAAA 639
Db 659 TTTTGTGTAAGAACCAAGAAATTCAACTATCGAGTATGATGTTATTCAGAAAATCTCAAG 718
Qy 640 ATAAATGTGACAGAACTGTCACAAAGTTTCTATCAGCTGCTGCTTTTTCAGTCCCTGAAG--- 696
Db 719 ATAAATGTGACAGAACTGTCAGAGCTTTCCATCAGCTGCTGTTTTCATTCCTCGATGTTA 778
Qy 697 CACAATAATGTGAGCGTCTTTTGTGCCCTGAAACTGGAGACACTGGAGATGCTGCTCTCCC 756
Db 779 CGAGCAATATGACCACTTCTGTTATTCGAAACTGACA---AGACGGGCTTTTATCTT 835
Qy 757 TACCTTTCAATATAGATGCAACCTTAAGGATAAAGACCTTGAAACAGGCGACCTTCTCT 816
Db 836 CACCTTCTCTCTAG---AGCTTGAGGAGCCCTCAGCCTCCGCCAGACCAACATTCCTT 889
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Patent No. 6608180
; GENERAL INFORMATION:
; APPLICANT: Sharpe, Arlene H.
; APPLICANT: Borriello, Francescopaulo
; APPLICANT: Freeman, Gordon J.
; APPLICANT: Nadler, Lee M.
; TITLE OF INVENTION: No. 6608180el Forms of T Cell Costimulatory
; TITLE OF INVENTION: Molecules and Uses Therefor
; FILE REFERENCE: BWI-120CPADV
; CURRENT APPLICATION NUMBER: US/09/837,867A
; CURRENT FILING DATE: 2001-04-17
; PRIOR APPLICATION NUMBER: 08/205,697
; PRIOR FILING DATE: 1994-03-02
; NUMBER OF SEQ ID NOS: 42
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 24
; LENGTH: 1161
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (148)... (1134)
US-09-837-867A-24

Query Match 51.2%; Score 552.6; DB 4; Length 1161;
Best Local Similarity 74.6%; Pred. No. 2.7e-169;
Matches 802; Conservative 0; Mismatches 234; Indels 39; Gaps 7;

QY 1 GTTTCGTGTTCTCGGGAATGTCACGTGATATACATCTGCTCTCTG---GGAGCTGC 57
DB 62 GCTTCTGTGTTCTTGGGAATGCTGCTGTGCTTATGATCTGCTCTCTTTTGGAGCTAC 121
QY 58 AGTGAATGGGCAATTTGTGACA-----GCACTATGGGACTGAGTCACA 99
DB 122 AGTGGACAGCAATTTGTGACAGCACTATGATCCCGAGTGCATATGGGACTGAGTAACA 181
QY 100 CTCCTCTGTGATGGCCCTCTGCTCTCTGGTGTCTTCCATGAAGATCAAGCATATT 159
DB 182 TTCTCTTTGTGATGGCTCTCTGCTCTCTGGTGTCTCTCTGGAATTCAGCTTATT 241
QY 160 TCAACAGACTGGAGAACCTGCATGCTTACAACTCTCAAACTCTCAAACTCAAGCTGGAT 219
DB 242 TCAATGAGACTGAGACCTGCGCATGCTTCAAACTCTCAAACTCTCAAACTCAAGCTGGAT 301
QY 220 AGCTGTAGTATTTTGGCAGGACCGAGTAAGCTGTTCTGTATGAGATATTCAAGGCA 279
DB 302 AGCTAGTATTTTGGCAGGACCGAGTAAGCTGTTCTGTATGAGATATTCAAGGCA 361
QY 280 AAGAGAACCTCAAAATGTTCAATCTCAAAATATAAGGGCCGTACAAGCTTTGAAGGACA 339
DB 362 AAGAGAAATTTGACAGTGTTCATTCCAAGTATATGCGCGGCAAGTTTGTATCGGACA 421
QY 340 ACTGGACCTGAGACTCCCAATGTTCAATCAAGGACAGGACATATCACTGTTTCA 399
DB 422 GTTGGACCTGAGACTCCCAATGTTCAATCAAGGACAGGACATATCACTGTTTCA 481
QY 400 TTCAATATAAGGGCCCAAGGACTAGTTCCCAATGACCAAAATGAGTTCTGACCTATCAG 459
DB 482 TCCATCAAAAAGGCCAGGATGATTCGATCCAGAGATGATTCGAGTGTGAC 541
QY 460 TGTGCTCAACTTCACTCACTCACTCACTCACTCACTCACTCACTCACTCACTCACTCA 519
DB 542 TGTGCTCAACTTCACTCACTCACTCACTCACTCACTCACTCACTCACTCACTCACTCA 598
QY 520 GCATCAATAATTTGACCTGCTCATCTATCAAGGTTTACCAGAACCTTAAGGAGATGATT 579
DB 599 TGTACATAAATTTGACCTGCTCATCTATCAAGGTTTACCAGAACCTTAAGGAGATGATT 658
QY 580 TTCAGCTCAACACTGAGATTCACCTACTAAGTATGATCTCATGAGAAATCTCAAA 639
DB 659 TTTTGTGAAGAACCAAGAAATTCACCTACTAAGTATGATCTCATGAGAAATCTCAAG 718
QY 640 ATAATGTGACAGAACTGTACAAGGTTTCTATCAGCTTGCCTTTTTCAGTCCCTGAAG--- 696

; RESULT 9
; PCT-US95-02576-24
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: Novel Forms of T Cell Costimulatory Molecules
; TITLE OF INVENTION: and Uses Therefor
; NUMBER OF SEQUENCES: 65
; CORRESPONDENCE ADDRESS:
; ADDRESS: LAHIVE & COCKFIELD
; STREET: 60 State Street, suite 510
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/02576
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/205,697
; FILING DATE: 02-Mar-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Mandragouras, Amy E.
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: BWI-120CPPC
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 24:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1161 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 148..1134
; PCT-US95-02576-24
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Query Match		51.2%;	Score 552.6;	DB 5;	Length 1161;
Best Local Similarity		74.6%;	Pred. No. 2.7e-169;		
Matches 802;		Conservative	0;	Mismatches 234;	Indels 39; Gaps 7;
QY	1	GTTTCTGTGTTCTCTCGGGAATGTCACTGAGCTTTATACATCTGTGTCCTG---GGAGCTGC	57		
Db	62	GCTTCTGTGTTCTCTGGGAATGCTGCTGTGCTTATGCACTGTGTCCTTTTGGAGCTAC	121		
QY	58	AGTGGATGGGCATTGTGACA-----GCACTATGGGACTGAGTCACA	99		
Db	122	AGTGGACAGGCATTTGTGACAGCACTATGGATCCCGAGTGCACATATGGGACTGAGTAACA	181		
QY	100	CTCTCTCTGTGATGGCCCTCTGCTCTCTGCTGCTGCTTCTTCCATGAAGTCAAGCATATT	159		
Db	182	TTCTCTTTGTGATGGCTTCTCTGCTCTCTGGTCTCTCTCTGAAGATTCAAGCTTATT	241		
QY	160	TCAACAAGACTGGAGAACTGCCATGTCATTTTACAAACTCTCAAAACATAGAAGCCCTGGATG	219		
Db	242	TCAATGAGACTGCAGACCTGCCATGCAATTTGCAAACTCTCAAAACCAAGCCCTGAGTG	301		
QY	220	AGCTGTGATATTTTGGCAGGACAGGATAAGCTGGTCTGTATGAGATATTCAAGGCA	279		
Db	302	AGCTAGTAGTATTTTGGCAGGACCAAGAAAACCTTGGTCTGAATGAGGTATATTAGGCA	361		
QY	280	AAGAGAACCTCAAAATGTTTCATCTCAAAATAAAGGCGGTACAAGCTTTGACAAGGACA	339		
Db	362	AAAGAAATTTGACAGTGTCATCTCAAGTATATGGGCCGCAAGTTTGTATTCGGACA	421		
QY	340	ACTGGACCTTGAGACTCCACAATGTTTCAGATCAAGGACAAGGGCACATATCACTGTTTCA	399		
Db	422	GTTGGACCTTGAGACTTCACAATCTTCAGATCAAGGACAAGGGCTTGTATCAATGATATCA	481		
QY	400	TTCAATTATAAGGGCCCAAGAGCTAGTTCCCATGACCAAAATGAGTCTTGACCTATCAG	459		
Db	482	TCCATCACAAAAGGCCCAGAGAAATGATTCGATCCACAGATGAATTCGAACTGTCAAG	541		
QY	460	TGCTTGCTAACTTCAGTCAACCTGAAATAACAGTAACTTCTAATAGAACAGAAAATTCG	519		
Db	542	TGCTTGCTAACTTCAGTCAACCTGAAATAAGTACCAATTTCTAATATAACAGAAA---TG	598		
QY	520	GCATCATAAATTTGACCTGCTCATCTATACAAGGTTTACCAGAACCTTAAGGAGATGTATT	579		
Db	599	TGTACATAAATTTGACCTGCTCATCTATACACGGTTTACCAGAACCTTAAGAGATGAGTG	658		
QY	580	TTCACTAAACACTGAGAAATTCACACTAAGTATGATCTGTCAATGAAGAAATCTCAA	639		
Db	659	TTTGTGTGAAGAACCAAGAAATCAACTATCGAGTATGATGTATATGCGAGAAATCTCAAG	718		
QY	640	ATAATGTGACAGAACTGTACAAGTGTTCATCAGCTTGCTTTTTCAGTCCCTGAAG---	696		
Db	719	ATAATGTCAAGAACTGTACAGAGTTCATCAGCTTGCTTTTTCATTCCTCTGATGTATA	778		
QY	697	CACACAATGTGACGCTTTTGTGCCCCGTGAAACTGGAGACACTGGAGATGCTGCTCC	756		
Db	779	CGAGCAATATGACCATCTTCTGTATTCTGAAACTGACA--AGACGGCGCTTTTATCTT	835		
QY	757	TACCTTTCAATATAGATGCACAACCTAAGGNTAAGACCCCTGAAACAGGCCCATCTCTCT	816		
Db	836	CACCTTTCTCTATAG-----AGCTTGAAGGCCCTCAGCCTCCCCAGACCAATTCCTT	889		
QY	817	GGATTGCGGCTGTACTGTGTAATGTTTGTGTTTGTGGGATGGTGCTCTTTTAAACAC	876		
Db	890	GGATTACAGCTGTACTTCCACAGTTATTATATGTGTGATGTTTCTGTCTAATTCATAT	949		
QY	877	TAAAGAAAAGGAAGAGAGCGCTTGGCCCTCTCATGAATGTGAAACCATCAAAGGG	936		
Db	950	GGAAATGGAAGAAGAAAGCGGCTCGCAACTCTTATAAATGTGGAAACCAACAAATGG	1009		
QY	937	AGAGAAAAGAGACAAACAGACCAAGCAAGAGAGTACCATACACAGTACCTGAGATCTG	996		
Db	1010	AGAGGGAAGAGATGAACAGACCAAGAAAAGAGAAAAATCCATATACCTGAAAGATCTG	1069		
QY	997	ATGAAGCCCCAGTGTG---TTAAATTTTGAAGACAGCCTCAGGGGACAAAAATCA	1048		

Db	1070	ATGAAGCCCGAGCTGTTTTTAAAAAGTTGGAAGACATCTTCATGCGCAAAAAGTGA	1124
RESULT 10			
US-09-039-982A-33			
; Sequence 33, Application US/09039982A			
; Patent No. 6225042			
; GENERAL INFORMATION:			
; APPLICANT: Cai, Zeling			
; APPLICANT: Sprent, Jonathan			
; APPLICANT: Brummark, Anders			
; APPLICANT: Jackson, Michael			
; APPLICANT: Peterson, Per A			
; TITLE OF INVENTION: ANTIGEN PRESENTING SYSTEM AND METHODS FOR ACTIVATION OF T-CELL			
; NUMBER OF SEQUENCES: 59			
; CORRESPONDENCE ADDRESS:			
; ADDRESSEE: Olson & Hierl, Ltd.			
; STREET: 20 No. 6225042th Wacker Drive, Suite 3000			
; CITY: Chicago			
; STATE: Illinois			
; COUNTRY: USA			
; ZIP: 60606			
; COMPUTER READABLE FORM:			
; MEDIUM TYPE: Floppy disk			
; COMPUTER: IBM PC compatible			
; OPERATING SYSTEM: PC-DOS/MS-DOS			
; SOFTWARE: PatentIn Release #1.0, Version #1.25			
; CURRENT APPLICATION DATA:			
; APPLICATION NUMBER: US/09/039,982A			
; FILING DATE: 16-MAR-1998			
; CLASSIFICATION: 435			
; ATTORNEY/AGENT INFORMATION:			
; NAME: Olson, Arne M.			
; REGISTRATION NUMBER: 30,203			
; REFERENCE/DOCKET NUMBER: TSRI4710			
; TELECOMMUNICATION INFORMATION:			
; TELEPHONE: (312) 580-1180			
; TELEFAX: (312) 580-1189			
; INFORMATION FOR SEQ ID NO: 33:			
; SEQUENCE CHARACTERISTICS:			
; LENGTH: 1002 base pairs			
; TYPE: nucleic acid			
; STRANDEDNESS: double			
; TOPOLOGY: linear			
; MOLECULE TYPE: cDNA			
; HYPOTHETICAL: NO			
; ANTI-SENSE: NO			
US-09-039-982A-33			

Query Match		49.4%;	Score 533.2;	DB 3;	Length 1002;
Best Local Similarity		75.3%;	Pred. No. 5.3e-163;		
Matches 735;		Conservative	0;	Mismatches 223;	Indels 18; Gaps 5;
QY	79	GCACATATCGGACTGAGTCACACTCTCTTGTGTGATGGCCCTCTCTCTCTCTGTGTTCTT	138		
Db	20	GCACATATCGGACTGAGTAACATTCCTTTGTGATGGCCCTCTCTCTCTGTGTTCTT	79		
QY	139	CCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGCCATGCCATTTTACAAACT	198		
Db	80	CTCTGAAGATTCAAGCTTATTTCAATGAGACTGCAGACTGCCATTTGCAAACT	139		
QY	199	CTCAAAACATAGCTGTGATGAGCTGTAGTATTTTGGCAGGACCAGGATAGCTGTTTC	258		
Db	140	CTCAAAACCAAGCCCTGAGTGTAGTATTTTGGCAGGACCAGGAAACTTGGTTTC	199		
QY	259	TGTATGAGATATTCAGAGCGCAAGAGAACCCCTCAAAATGTTTCATCTCAAAATATAAGGGCC	318		
Db	200	TGAATAGGTTACTATTAGGCAAGAGAAATTTGACAGTGTTCATTCGAATATATGGGCC	259		
QY	319	GTACAAGCTTTGACAAGGACAACTGGACCCCTGAGACTCCAAATGTTTCAGATCAAGGACA	378		
Db	260	GCACAAGTTTGTGATTCGGACAGTTGGACCCCTGAGACTTCACAACTCTTCAGATCAAGGACA	319		



Db	677	---	AGACGCGCGCTTTTATCTTCACTTTCTCTATAG-----AGCTTGAGGACCGCTCAGC	727
Qy	796	CTGAACAAGGCGCACTTCCTCTGGAAATCGCGCTGTACTTGTAAATGTTTGTGTTTTTGTG	855	
Db	728	CTCCCCAGACCAATTCCTTGGAAATTACAGCTGTACTTCCAAAGTTATTATATGTGTGA	787	
Qy	856	GGATGGTGTCTCTTTAAAACACTAAGGAAAAGGAAGAACGACGCTGGCCCTCTCTCATG	915	
Db	788	TGGTTTTCTGTCTAATTTCTATGGAAATGGAAGAAGAAAGCGCGCTCGCAACTCTTATA	847	
Qy	916	AATGTGAACCATCAAAGGGAGAGAAAAGAGACCAACAGACCAACGAAGAGTACCAT	975	
Db	848	AATGTGAACCAACACAAATGAGAGGGGAAGAGTGAACAGACCAAGAAAGAGAAAAA	907	
Qy	976	ACCACGTACTCTGACGAGATCTGATCAAGCCCAAGTGTG--TTAAACATTTTGAAGACAGCCT	1032	
Db	908	TCCATATACCTGAAGAATCTGATGAAGCCACCGGTGTTTTTAAAGTTCGAAGACATCTT	967	
Qy	1033	CAGGGGCAAAAATCA	1048	
Db	968	CATCGACAAAAGTGA	983	

## RESULT 12

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US-09-039-762A-33
; Sequence 33, Application US/09039762A
; Patent No. 6255073
; GENERAL INFORMATION:
; APPLICANT: Cai, Zeling
; APPLICANT: Sprent, Jonathan
; APPLICANT: Brunmark, Anders
; APPLICANT: Jackson, Michael
; APPLICANT: Peterson, Per A.
; TITLE OF INVENTION: ANTIGEN PRESENTING SYSTEM AND METHODS
; TITLE OF INVENTION: FOR ACTIVATION OF T-CELLS
; NUMBER OF SEQUENCES: 59
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Olsson & Hierl, Ltd.
; STREET: 20 No. 6255073th Wacker Drive, 36th Floor
; City: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/039,762A
; FILING DATE: 16-MAR-1998
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: OLSON, Arne M.
; REGISTRATION NUMBER: 30,203
; REFERENCE/DOCKET NUMBER: TSRI 471.0 DIV.2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (312) 580-1180
; TELEFAX: (312) 580-1189
; INFORMATION FOR SEQ ID NO: 33:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1002 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHEetical: NO
; ANTI-SENSE: NO
US-09-0399-762A-33

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Query Match 49.4%; Score 533.2; DB 3; Length 1002;  
Best Local Similarity 75.3%; Pred. No. 5.3e-163;

	Matches	735; Conservative	0; Mismatches	223; Indels	18; Gaps	5;
Qy	79	GCATATGGAGCTGAGTCA	CACATCTCCTTGTGATG	CCCTCCTGCTCTCTGGTGTTCCT	138	
Db	20	GCATATGGAGCTGAGTCA	CAATCTCTTTGTGATG	CCCTTCTGCTCTCTGGTGTTCCT	79	
Qy	139	CCATGAAGAGTCAAGCAT	ATTTCAAACAAGACTGG	AACCTGCCATGCGCATTTTACAAACT	198	
Db	80	CTCTGAAGATTCAAGCTT	ATTTCAAATGAGACTGC	AGACCTGCCATGCGCATTTTGCAAACT	139	
Qy	199	CTCAAAACATAAGCTTGG	ATAGCTGCTAGTATTTT	TGGCAGGACCAAGGATAAGCTGCTTC	258	
Db	140	CTCAAAACCAAGCCCTG	AGTACTAGTATTTT	TGGCAGGACCAAGGATAAGCTGCTTC	199	
Qy	259	TGTATGAGATATTTCA	GAGGCAAGAACCCCT	CAAAATGTTTCATCTCAATATAAAGGCC	318	
Db	200	TGAATGAGGTATACTT	TAGGCAAGAGAAAT	TTTGACAGTGTTCATTTCCAAAGTATATGGCC	259	
Qy	319	GTCACAGCTTTGACAG	GCAACTGACACCTG	AGACTCCACATGTTTCAGATCAAGGACA	378	
Db	260	GCACAAGTTTGAATCG	GACAGTGTGACCTG	AGACTTCACAATCTTCAGATCAAGGACA	319	
Qy	379	AGGGCACATATCACTG	TTTCATTCATTTATA	AAAGGGCCCAAGGACTAGTTCCTCATGCACC	438	
Db	320	AGGGCTTGTATCAAT	GTATCATCATCA	CAAAAGCCACAGGAATGATTCGATCCACC	379	
Qy	439	AAATGAGTTCTGACCT	ATCAGTGTCTGTA	CTTCACTGAGTCAACTGAAATCAAGTAACTT	498	
Db	380	AGATGAATTCGAACT	GTGCTGCTAACTT	CACTGACCACTGAAATAGTACCAATTT	439	
Qy	499	CTAATAGAACAGAAA	ATTTGGCATCATATA	TTTGGACCTGCTCATCTATACAGGTTACC	558	
Db	440	CTAATATAACAGAAA	---TGTGTACATAA	TTTGGACCTGCTCATCTATACAGGTTACC	496	
Qy	559	CAGAACCTAAGGAGAT	GTATTTTTCAGCTAAA	CACACTGAGAAATTCAACTACTAAGTATGATA	618	
Db	497	CAGAACCTAAGGAGAT	GTATTTTTCAGCTAAA	CACAAAGAAATTCAACTATCGAGTATGATG	556	
Qy	619	CTGTCTAAGAANAAT	CTCAAAATATGTG	CACAGAACTGTACACGTTTCTATCAGCTTGC	678	
Db	557	GTATATGACAGAAAT	CTCAAGATAATGT	CACAGAACTGTACGACGTTTCCATCAGCTTGT	616	
Qy	679	CTTTTTTCAGTCCCTG	AAAG---CACACAAT	GTCAGCCTCTTTTGTGCGCTGAAACTGGAGA	735	
Db	617	CTGTCTTCATTCCTG	ATGTTACGACAAT	ATGACCATCTCTGTATTTCTGGAAACTGACA	676	
Qy	736	CATCGAGATGCTGCT	CTCCCTACCTTT	CAATATAGATGCACAACTTAGGATAAAGACC	795	
Db	677	---AGACGCGCGCT	TTTATCTTCACTT	CTCTATAG-----AGCTTAGGACCCCTCAGC	727	
Qy	796	CTGAAACAAGGCCACT	TCCTCTGATTCGCG	CTGTACTTGTAAATGTTTGTGTTTGTG	855	
Db	728	CTCCCCCAGACCAC	ATTCCTTGATTTAC	AGTGTACTTCCACAGTTATATATGTGTGA	787	
Qy	856	GGATGCTGCTTTTAAA	ACATAAGGAAAAG	GGAAGACGACGCTGGCCCTCTCATG	915	
Db	788	TGTTTTTCTGTCTAA	TTCTATGGAAT	TGGAAGAAAGACGCGCTCGCAACTTTATA	847	
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Db	968	CATCGCACAAA	AGTGA	983		

RESULT 13  
US-09-042-492D-33



Sequence 33, Application US/09042492D  
Patent No. 6362001  
GENERAL INFORMATION:  
APPLICANT: Cai, Zeling  
          Brunmark, Anders  
          Jackson, Michael  
          Peterson, Per A.  
TITLE OF INVENTION: ANTIGEN PRESENTING SYSTEM AND METHODS  
FOR ACTIVATION OF T-CELLS  
NUMBER OF SEQUENCES: 59  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Olson & Hierl, Ltd.  
STREET: 20 No. 6362001th Wacker Drive, 36th Floor  
CITY: Chicago  
STATE: Illinois  
COUNTRY: USA  
ZIP: 60606  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/042,492D  
FILING DATE: 16-Mar-1998  
CLASSIFICATION: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Cepuritis, Talivaldis  
REGISTRATION NUMBER: 20,818  
REFERENCE/DOCKET NUMBER: 471.0 DIV.3  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (312) 580-1180  
TELEFAX: (312) 580-1189  
INFORMATION FOR SEQ ID NO: 33:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1002 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
SEQUENCE DESCRIPTION: SEQ ID NO: 33:  
US-09-042-492D-33

Query Match 49.4%; Score 533.2; DB 3; Length 1002;  
Best Local Similarity 75.3%; Pred. No. 5.3e-163;  
Matches 735; Conservative 0; Mismatches 223; Indels 18; Gaps 5;

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QY 139 CCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAAGCTGCCATGCCATTTTACAAACT 198  
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QY 199 CTCAAAACATAAGCCCTGGATGAGCTGGTAGTATTTGGCAGGACGAGGATAGCTGGTTC 258  
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DB 200 TGAATGAGGTATCTTAGGCAAGAGAAATTTGACAGTGTTCATTCGAATATATGGGCC 259  
QY 319 GTACAAAGCTTTGCAAGGCAACTGGACCTGAGACTCCACATGTTTCAGATCAAGGACA 378  
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DB 320 AGGGCTGTATCAATGTATCATCCATCACAAAAGCCCAAGGAATGATTCGCATCCACC 379

QY 439 AAATGAGTTCTGACCTATCAGTCTCTTGTCTAACTTCACTCAACCTGAAATCAAGTAACCTT 498  
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DB 968 CATGGCAGAAAAGTGA 983

RESULT 14  
US-08-913-612A-33  
Sequence 33, Application US/08913612A  
Patent No. 6461867  
GENERAL INFORMATION:  
APPLICANT: Cai, Zeling  
APPLICANT: Sprent, Jonathan  
APPLICANT: Brunmark, Anders  
APPLICANT: Jackson, Michael  
APPLICANT: Peterson, Per A.  
TITLE OF INVENTION: ANTIGEN PRESENTING SYSTEM AND METHODS FOR  
ACTIVATION OF T-CELLS  
NUMBER OF SEQUENCES: 65  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Olson & Hierl, Ltd.  
STREET: 20 No. 6461867th Wacker Drive, 36th Floor  
CITY: Chicago  
STATE: Illinois  
COUNTRY: USA  
ZIP: 60606  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/913,612A

; FILING DATE: 08-SEP-1997									
; CLASSIFICATION: 424									
; ATTORNEY/AGENT INFORMATION:									
; NAME: Cepuritis, Talivaldis									
; REGISTRATION NUMBER: 20,818									
; REFERENCE/DOCKET NUMBER: 471.1 US									
; TELECOMMUNICATION INFORMATION:									
; TELEPHONE: (312) 580-1180									
; TELEFAX: (312) 580-1189									
; INFORMATION FOR SEQ ID NO: 33:									
; SEQUENCE CHARACTERISTICS:									
; LENGTH: 1002 base pairs									
; TYPE: nucleic acid									
; STRANDEDNESS: double									
; TOPOLOGY: linear									
; MOLECULE TYPE: cDNA									
; HYPOTHETICAL: NO									
; ANTI-SENSE: NO									
; US-08-913-612A-33									
Query Match 49.4%; Score 533.2; DB 3; Length 1002;									
Best Local Similarity 75.3%; Pred. No. 5.3e-163;									
Matches 735; Conservative 0; Mismatches 223; Indels 18; Gaps 5									
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Qy	319	GT	ACAAGCTTTGACAGACAACTGGACCCTGAGACTCCACAAATGTTCAGATCAAGGACA	378					
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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4	1041.2	96.4	2830	19	US-10-790-396-27
5	979.2	90.7	996	19	US-10-790-396-28
6	979.2	90.7	996	19	US-10-790-396-29
7	772.8	71.6	987	19	US-10-790-396-9

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c	9	772.8	71.6	1897	19	US-10-790-396-6	Sequence 6, Appl
c	10	772.8	71.6	1897	19	US-10-790-396-8	Sequence 8, Appl
c	11	582.2	53.9	840	19	US-10-790-396-19	Sequence 19, Appl
c	12	582.2	53.9	840	19	US-10-790-396-20	Sequence 20, Appl
c	13	582.2	53.9	1795	19	US-10-790-396-16	Sequence 16, Appl
c	14	582.2	53.9	1795	19	US-10-790-396-18	Sequence 18, Appl
c	15	580.6	53.8	1424	9	US-09-962-436-556	Sequence 556, App
c	16	580.6	53.8	1424	9	US-09-954-531-366	Sequence 366, App
c	17	580.6	53.8	1424	9	US-09-441-411-21	Sequence 21, Appl
c	18	580.6	53.8	1424	15	US-10-207-655-120	Sequence 120, App
c	19	580.6	53.8	1424	17	US-10-172-118-1336	Sequence 1336, Ap
c	20	580.6	53.8	1424	17	US-10-444-206-295	Sequence 295, App
c	21	580.6	53.8	1424	18	US-10-342-887-1336	Sequence 1336, Ap
c	22	580.6	53.8	1424	20	US-10-762-128-21	Sequence 21, Appl
c	23	580.6	53.8	1424	20	US-10-641-962-295	Sequence 295, App
c	24	580.6	53.8	1424	21	US-10-802-440-3	Sequence 3, Appl
c	25	580.6	53.8	1424	21	US-10-843-641A-1433	Sequence 1433, Ap
c	26	580.6	53.8	1424	21	US-10-843-641A-3015	Sequence 3015, Ap
c	27	580.6	53.8	1424	21	US-10-616-865-3	Sequence 3, Appl
c	28	580.6	53.8	1424	24	US-11-027-053-3	Sequence 1079, Ap
c	29	580.6	53.8	1600	13	US-10-087-192-1079	Sequence 24, Appl
c	30	552.6	51.2	1161	9	US-09-837-867A-24	Sequence 24, Appl
c	31	552.6	51.2	1161	10	US-09-962-969-24	Sequence 24, Appl
c	32	552.6	51.2	1161	19	US-10-643-768-24	Sequence 33, Appl
c	33	533.2	49.4	1002	14	US-10-105-200A-33	Sequence 33, Appl
c	34	533.2	49.4	1002	14	US-10-105-504A-33	Sequence 33, Appl
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c	39	533.2	49.4	1112	20	US-10-762-128-25	Sequence 25, Appl
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c	41	533.2	49.4	1120	9	US-09-183-055-3	Sequence 3, Appl
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c	44	533.2	49.4	1120	10	US-09-962-969-22	Sequence 3, Appl
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ALIGNMENTS

RESULT 1

US-09-303-510-5  
; Sequence 5, Application US/09303510A  
; Patent No. US2002028208A1  
; GENERAL INFORMATION:  
; APPLICANT: Collis, Ellen W.  
; APPLICANT: Hash, Stephen M.  
; APPLICANT: Choi, InSoo  
; TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CD28, and Feline  
; TITLE OF INVENTION: CTLA-4 Nucleic Acid and Polypeptides  
; FILE REFERENCE: 54954  
; CURRENT APPLICATION NUMBER: US/09/303,510A  
; CURRENT FILING DATE: 1999-04-30  
; EARLIER APPLICATION NUMBER: 60/083,869  
; EARLIER FILING DATE: 1998-05-01  
; NUMBER OF SEQ ID NOS: 83  
; SOFTWARE: Patent in Ver. 2.1  
; SEQ ID NO 5  
; LENGTH: 1080  
; TYPE: DNA  
; ORGANISM: Feline  
; US-09-303-510-5

Query Match 100.0%; Score 1080; DB 9; Length 1080;  
Best Local Similarity 100.0%; Pred. No. 1.6e-308;  
Matches 1080; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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; Patent No. US20020051792A1
; GENERAL INFORMATION:
; APPLICANT: Winslow, Barbara J.
; APPLICANT: Cochran, Mark D.
; TITLE OF INVENTION: Recombinant Virus Expressing Foreign DNA Encoding
; TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CD28, Feline CTLA-4 or
; TITLE OF INVENTION: Feline Interferon-gamma And Uses Thereof
; FILE REFERENCE: 54957-B
; CURRENT APPLICATION NUMBER: US/09/303,040
; CURRENT FILING DATE: 1999-04-30
; EARLIER APPLICATION NUMBER: 60/083,870
; EARLIER FILING DATE: 1998-05-01
; NUMBER OF SEQ ID NOS: 82
; SOFTWARE: PatentIn Ver. 2.0
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; TYPE: DNA
; ORGANISM: feline CD86
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (63)..(1052)
; US-09-303-040-5
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Query Match 100.0%; Score 1080; DB 9; Length 1080;  
Best Local Similarity 100.0%; Pred. No. 1.6e-308;  
Matches 1080; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 GTTCTGTGTTCTCTCGGAATGTCTAGCTTATACATCTGCTCTCGGGAGTGCAGT 60
Db 1 GTTCTGTGTTCTCTCGGAATGTCTAGCTTATACATCTGCTCTCGGGAGTGCAGT 60
QY 61 GGATGGGCATTGTGACAGCACTATGGGACTGAGTCACACTCTCCTTGTGTGATGGCCCTCC 120
Db 61 GGATGGGCATTGTGACAGCACTATGGGACTGAGTCACACTCTCCTTGTGTGATGGCCCTCC 120
QY 121 TGCTCTCTGGTGTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGC 180
Db 121 TGCTCTCTGGTGTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGC 180
QY 181 CATGCCATTTTCAAACTCTCAAAACATAAGCTGGATGAGCTGGTAGTATTTTGGCAGG 240
Db 181 CATGCCATTTTCAAACTCTCAAAACATAAGCTGGATGAGCTGGTAGTATTTTGGCAGG 240
QY 241 ACCAGGATAAGCTGGTGTCTGTATGAGATATTCAGAGGCAAGAGAACCTCAAAATGTTTC 300
Db 241 ACCAGGATAAGCTGGTGTCTGTATGAGATATTCAGAGGCAAGAGAACCTCAAAATGTTTC 300
QY 301 ATCTCAAAATATAAGGCGCGTCAAGCTTTGACAAGGACAACCTGGACCTTGAGACTCCACA 360
Db 301 ATCTCAAAATATAAGGCGCGTCAAGCTTTGACAAGGACAACCTGGACCTTGAGACTCCACA 360
QY 361 ATGTTTCAGATCAAGGACAGGCGCATATCATCTGTTTTCATTTAATAAAGGCGCCAAAG 420
Db 361 ATGTTTCAGATCAAGGACAGGCGCATATCATCTGTTTTCATTTAATAAAGGCGCCAAAG 420
QY 421 GACTAGTTCCTCATGACCAAAATGAGTCTGACCTATCAGTGTCTGCTAACTTTCAGTCAAC 480
Db 421 GACTAGTTCCTCATGACCAAAATGAGTCTGACCTATCAGTGTCTGCTAACTTTCAGTCAAC 480
QY 481 CTGAATAAACAGTAACTTCTTAATAGAACAGAAAAATCTGGCATCATATAAATTTGACCTGT 540
Db 481 CTGAATAAACAGTAACTTCTTAATAGAACAGAAAAATCTGGCATCATATAAATTTGACCTGT 540
QY 541 CATCTATACAAGTTTACCAGAACCTTAAGGAGATGATTTTTCAGCTAAACACTGAGAAAT 600
Db 541 CATCTATACAAGTTTACCAGAACCTTAAGGAGATGATTTTTCAGCTAAACACTGAGAAAT 600
QY 601 CAACCTACTAAGTATGATCTGTCTGAAGAAATCTCAAAATATATGTGACAGAACTGTACA 660
Db 601 CAACCTACTAAGTATGATCTGTCTGAAGAAATCTCAAAATATATGTGACAGAACTGTACA 660
QY 661 ACGTTTCTATCAGCTTGCCTTTTTCAGTCCCTGAAAGCACAAATGTGAGCGCTTTTGTG 720
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; CURRENT FILING DATE: 2004-03-01
; PRIOR APPLICATION NUMBER: US/09/646,561
; PRIOR FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: 60/078,765
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 09/062,597
; PRIOR FILING DATE: 1998-04-17
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 27
; LENGTH: 2830
; TYPE: DNA
; ORGANISM: Felis catus
US-10-790-396-27

Query Match 96.4%; Score 1041.2; DB 19; Length 2830;
Best Local Similarity 99.7%; Pred. No. 8.4e-297;
Matches 1043; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GTTCTGCTCTCTCGGGAATGCTCACTGAGCTTATACATCTGGTCTCTGGGAGCTCGAGT 60
Dbb
2714 GTTCTGCTCTCTCGGGAATGCTCACTGAGCTTATACATCTGGTCTCTGGGAGCTCGAGT 2655

QY 61 GGATGGGCATTTGTGACAGCACTATGGGACTGAGTCACACTCTCTCTGTGATGGCCCTCC 120
Dbb
2654 GGATGGGCATTTGTGACAGCACTATGGGACTGAGTCACACTCTCTCTGTGATGGCCCTCC 2595

QY 121 TGCCTCTCGGTGTTCTTCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGC 180
Dbb
2594 TGCCTCTCGGTGTTCTTCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGC 2535

QY 181 CATGCCATTTCAAACTCTCAAACTAAGCTGAGCTGAGTGTAGTATTTTGGCAGG 240
Dbb
2534 CATGCCATTTCAAACTCTCAAACTAAGCTGAGCTGAGTGTAGTATTTTGGCAGG 2475

QY 241 ACCAGTAAGTGTGTTCTGTATGAGATATTCAGAGGCAAAAGAACCCCTCAAAATGTTT 300
Dbb
2474 ACCAGTAAGTGTGTTCTGTATGAGATATTCAGAGGCAAAAGAACCCCTCAAAATGTTT 2415

QY 301 ATCTCAAAATTAAGGCCCGTACAAGCTTTGACAAGACAACCTGGACCTTGAGACTCCAA 360
Dbb
2414 ATCTCAAAATTAAGGCCCGTACAAGCTTTGACAAGACAACCTGGACCTTGAGACTCCAA 2355

QY 361 ATGTTCCAGATCAAGGACAGGACACATATCACTGTTTCAATTCATTAAGGCCCCCAAG 420
Dbb
2354 ATGTTCCAGATCAAGGACAGGACACATATCACTGTTTCAATTCATTAAGGCCCCCAAG 2295

QY 421 GACTAGTTCCTCATGCAACCAATGAGTTCTGACCTATCACTGCTTGTCTAACTTCAGTCAAC 480
Dbb
2294 GACTAGTTCCTCATGCAACCAATGAGTTCTGACCTATCACTGCTTGTCTAACTTCAGTCAAC 2235

QY 481 CTGAATAACAGTAACTTCTAATAGAAACAGAAAATTCCTGGCATCATAAATTTGACCTGCT 540
Dbb
2234 CTGAATAACAGTAACTTCTAATAGAAACAGAAAATTCCTGGCATCATAAATTTGACCTGCT 2175

QY 541 CATCTATACAAGTTTACCAGAACCTTAAGGAGATGATTTTTCAGCTTAACACTTGAGAAAT 600
Dbb
2174 CATCTATACAAGTTTACCAGAACCTTAAGGAGATGATTTTTCAGCTTAACACTTGAGAAAT 2115

QY 601 CAATCTAAGTATGATGATCTGTCATGAAGAAATCTCAAAATAATGTGACAGAACTGTACA 660
Dbb
2114 CAATCTAAGTATGATGATCTGTCATGAAGAAATCTCAAAATAATGTGACAGAACTGTACA 2055

QY 661 AGCTTTCTATCAGCTGCGCTTTTTCAGTCCCTGAAGCACAAATGTGAGCGCTTTTGTG 720
Dbb
2054 AGCTTTCTATCAGCTGCGCTTTTTCAGTCCCTGAAGCACAAATGTGAGCGCTTTTGTG 1995

QY 721 CCTGAAACTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTCAATATAGATGCAACAAC 780
Dbb
1994 CCTGAAACTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTCAATATAGATGCAACAAC 1935

QY 781 CTAAGGATAAAGACCCCTGAACAGGCCACTTCTCTGGATTTGGCGCTGTACTTGTAAATGT 840
Dbb

Dbb 1934 CTAAGGATAAAGACCCCTGAACAAGGCCACTTCTCTGGATTTCGGCTGTACTTGTAAATGT 1875
QY 841 TTGTTGTTTTTTTGTGGGATGGTGTCTCTTTAAACAACACTAAGGAAAAGGAAGAACAGCAGC 900
Dbb 1874 TTGTTGTTTTTTTGTGGGATGGTGTCTCTTTAAACAACACTAAGGAAAAGGAAGAACAGCAGC 1815
QY 901 CTGGGCCCTCTCATGAATGTGAACCAATCAAAAGGAGAGAAAAGAGAGACAAACAGACCA 960
Dbb 1814 CTGGGCCCTCTCATGAATGTGAACCAATCAAAAGGAGAGAAAAGAGAGACAAACAGACCA 1755
QY 961 ACGAAAGAGTACCATACACACGTACCTGAGAGATCTGTGAAGCCCGAGTGTGTAAACATTT 1020
Dbb 1754 ACGAAAGAGTACCATACACACGTACCTGAGAGATCTGTGAAGCCCGAGTGTGTAAACATTT 1695
QY 1021 TGAAGACAGCCTCAGGGGACAAAAT 1046
Dbb 1694 TGAAGACAGCCTCAGGGGACAAAAGT 1669

RESULT 5
US-10-790-396-28
; Sequence 28, Application US/10790396
; Publication No. US20040157296A1
; GENERAL INFORMATION:
; APPLICANT: Sim, Gek-Kee
; APPLICANT: Yang, Shumin
; APPLICANT: Sellins, Karen S.
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC
; FILE OF INVENTION: ACID MOLECULES, AND USES THEREOF
; FILE REFERENCE: IM-1-CI-PCT
; CURRENT APPLICATION NUMBER: US/10/790,396
; CURRENT FILING DATE: 2004-03-01
; PRIOR APPLICATION NUMBER: US/09/646,561
; PRIOR FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: 60/078,765
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 09/062,597
; PRIOR FILING DATE: 1998-04-17
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 28
; LENGTH: 996
; TYPE: DNA
; ORGANISM: Felis catus
US-10-790-396-28

Query Match 90.7%; Score 979.2; DB 19; Length 996;
Best Local Similarity 99.7%; Pred. No. 1.1e-278;
Matches 981; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 63 ATGGGCATTTGTGACAGCACTATGGGACTGAGTCACTCTCTCTGTGATGGCCCTCTCTG 122
Dbb 1 ATGGGCATTTGTGACAGCACTATGGGACTGAGTCACTCTCTCTGTGATGGCCCTCTCTG 60

QY 123 CTCTCTGTGTTTCTTCTCATGAAGAGTCAAGCATATTTCAACAAGACTGAGAACTGCCA 182
Dbb 61 CTCTCTGTGTTTCTTCTCATGAAGAGTCAAGCATATTTCAACAAGACTGAGAACTGCCA 120

QY 183 TGCCATTTTACAACTCTCAAAACATAAGCTTGAAGCTGAGTGTAGTATTTTGGCAGGAC 242
Dbb 121 TGCCATTTTACAACTCTCAAAACATAAGCTTGAAGCTGAGTGTAGTATTTTGGCAGGAC 180

QY 243 CAGGATAAGCTGTTCTGTATGAGATATTCAGAGCAAGAGAAACCTCAAAATGTTTCAT 302
Dbb 181 CAGGATAAGCTGTTCTGTATGAGATATTCAGAGCAAGAGAAACCTCAAAATGTTTCAT 240

QY 303 CTCAATATTAAGGGCCGTACAACTTTTGAACAAGCACTGGACCTCTGAGACTTCCACAAT 362
Dbb 241 CTCAATATTAAGGGCCGTACAACTTTTGAACAAGCACTGGACCTCTGAGACTTCCACAAT 300

QY 363 GTTCAGATCAAGGACAAGGGCACAATATCACTGTTTCAATTCATTAAGGGCCCAAGGA 422
Dbb 301 GTTCAGATCAAGGACAAGGGCACAATATCACTGTTTCAATTCATTAAGGGCCCAAGGA 360



QY 423 CTAGTTCCCATGGACCAAAATGAGTTCTGACCTATCAGTGTCTTCTAATTTCACTCAACCT 482  
DB 361 CTAGTTCCCATGGACCAAAATGAGTTCTGACCTATCAGTGTCTTCTAATTTCACTCAACCT 420  
QY 483 GAAATAACAGTAATCTTCTATAGAACAGAAAATCTGGCATCATATAATTTGACCTCTCA 542  
DB 421 GAAATAACAGTAATCTTCTATAGAACAGAAAATCTGGCATCATATAATTTGACCTCTCA 480  
QY 543 TCTATACAGGTTTACCCAGAACCTAAGGAGATGATATTTTCAGCTAAACACTGAGAAATCA 602  
DB 481 TCTATACAGGTTTACCCAGAACCTAAGGAGATGATATTTTCAGCTAAACACTGAGAAATCA 540  
QY 603 ACTACTAAGTATGATATCTGTCATGAGAAATCTCAAAATTAATGTGACAGAACTGTACAAC 662  
DB 541 ACTACTAAGTATGATATCTGTCATGAGAAATCTCAAAATTAATGTGACAGAACTGTACAAC 600  
QY 663 GTTTCCTATCAGTTGCTTTTTCAGTCCCTGGAAGCACAAATGTGAGCGTCTTTTGTGCC 722  
DB 601 GTTTCCTATCAGTTGCTTTTTCAGTCCCTGGAAGCACAAATGTGAGCGTCTTTTGTGCC 660  
QY 723 CTGAAGCTGGAGACACTGGAGATGCTCTCTCCCTACCTTTCAATATAGATGACAACT 782  
DB 661 CTGAAGCTGGAGACACTGGAGATGCTCTCTCCCTACCTTTCAATATAGATGACAACT 720  
QY 783 AAGGATAAAGACCTGAAACAAGGCCACTTCTCTGAGATGCGGCTGTACTGTGTAATGTTT 842  
DB 721 AAGGATAAAGACCTGAAACAAGGCCACTTCTCTGAGATGCGGCTGTACTGTGTAATGTTT 780  
QY 843 GTTGTGTTTTGTGGGATGGTCTTTTAAACACTAAGGAAAGGAAAGAGAGAGAGCT 902  
DB 781 GTTGTGTTTTGTGGGATGGTCTTTTAAACACTAAGGAAAGGAAAGAGAGAGAGCT 840  
QY 903 GGCCTCTCTCATGAATGTGAAACCATCAAAAGGGAGAGAAAAGAGAGCAACAGACCAAC 962  
DB 841 GGCCTCTCTCATGAATGTGAAACCATCAAAAGGGAGAGAAAAGAGAGCAACAGACCAAC 900  
QY 963 GAAAGAGTACCATACCACTGAGAGATCTGATGAAGCCAGTGTGTAACATTTTG 1022  
DB 901 GAAAGAGTACCATACCACTGAGAGATCTGATGAAGCCAGTGTGTAACATTTTG 960  
QY 1023 AAGACAGCTCAGGGGACAAAAT 1046  
DB 961 AAGACAGCTCAGGGGACAAAAT 984

## RESULT 6

US-10-790-396-29/c  
; Sequence 29, Application US/10790396  
; Publication No. US20040157296A1  
; GENERAL INFORMATION:  
; APPLICANT: Sim, Gek-Ke  
; APPLICANT: Yang, Shumin  
; APPLICANT: Sellins, Karen S.  
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC  
; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF  
; FILE REFERENCE: IM-1-C1-PCT  
; CURRENT APPLICATION NUMBER: US/10/790,396  
; CURRENT FILING DATE: 2004-03-01  
; PRIOR APPLICATION NUMBER: US/09/646,561  
; PRIOR FILING DATE: 2000-09-19  
; PRIOR APPLICATION NUMBER: 60/078,765  
; PRIOR FILING DATE: 1998-03-19  
; PRIOR APPLICATION NUMBER: 09/062,597  
; PRIOR FILING DATE: 1998-04-17  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 29  
; LENGTH: 996  
; TYPE: DNA  
; ORGANISM: Felis catus  
US-10-790-396-29

Query Match 90.7%; Score 979.2; DB 19; Length 996;  
Best Local Similarity 99.7%; Pred. No. 1.1e-278;  
Matches 981; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 63 ATGGGCAATTTGTGACAGCACTATGGGACTGAGTCAACATCTCTCTGATGGCCCTCCTG 122  
DB 996 ATGGGCAATTTGTGACAGCACTATGGGACTGAGTCAACATCTCTCTGATGGCCCTCCTG 937  
QY 123 CTCTCTGTGTTTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGAGAACTGCGCA 182  
DB 936 CTCTCTGTGTTTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGAGAACTGCGCA 877  
QY 183 TGGCAATTTTCAAACTCTCTCAAAACATAGCCTGGATGAGCTGGTAGTATTTTGGCAGGAC 242  
DB 876 TGGCAATTTTCAAACTCTCTCAAAACATAGCCTGGATGAGCTGGTAGTATTTTGGCAGGAC 817  
QY 243 CAGGATAAGCTGTTCTGTATGAGATATTTAGAGGCAAGAGAACTCTCAAAATGTTTCA 302  
DB 816 CAGGATAAGCTGTTCTGTATGAGATATTTAGAGGCAAGAGAACTCTCAAAATGTTTCA 757  
QY 303 CTCAATATAAGGGCCGTAACAAGCTTTTGAACAAGGCAACTGGACCTTGAGACTTCCACAAT 362  
DB 756 CTCAATATAAGGGCCGTAACAAGCTTTTGAACAAGGCAACTGGACCTTGAGACTTCCACAAT 697  
QY 363 GTTCAGATCAAGGCAAGGGCAATATCACTGTTCATTTCAATATAAAGGGCCCAAGGA 422  
DB 696 GTTCAGATCAAGGCAAGGGCAATATCACTGTTCATTTCAATATAAAGGGCCCAAGGA 637  
QY 423 CTAGTTCCCATGACCAAAATGAGTTCTGACCTATCAGTGTCTTCTAATTTTCACTCAACCT 482  
DB 636 CTAGTTCCCATGACCAAAATGAGTTCTGACCTATCAGTGTCTTCTAATTTTCACTCAACCT 577  
QY 483 GAAATAACAGTAATCTTCTATAGAACAGAAAATTTCTGGCATCATATAATTTGACCTGTCTCA 542  
DB 576 GAAATAACAGTAATCTTCTATAGAACAGAAAATTTCTGGCATCATATAATTTGACCTGTCTCA 517  
QY 543 TCTATACAAGGTTTACCCAGAACCTAAGGAGATGATATTTTCACTAAGGAGAGAGAGAGAGAG 602  
DB 516 TCTATACAAGGTTTACCCAGAACCTAAGGAGATGATATTTTCACTAAGGAGAGAGAGAGAGAG 457  
QY 603 ACTACTAAGTATGATATCTGTCATGAGAAATCTCAAAATTAATGTGACAGAACTGTACAAC 662  
DB 456 ACTACTAAGTATGATATCTGTCATGAGAAATCTCAAAATTAATGTGACAGAACTGTACAAC 397  
QY 663 GTTTCCTATCAGCTTGCCTTTTTCAGTCCCTGGAAGCACAAATGTGAGCGTCTTTTGTGCC 722  
DB 396 GTTTCCTATCAGCTTGCCTTTTTCAGTCCCTGGAAGCACAAATGTGAGCGTCTTTTGTGCC 337  
QY 723 CTGAAACTGGAGACACTGGAGATGCTCTCTCCCTACCTTTCAATATAGATGACAACT 782  
DB 336 CTGAAACTGGAGACACTGGAGATGCTCTCTCCCTACCTTTCAATATAGATGACAACT 277  
QY 783 AAGGATAAAGCCCTGAAACAGGCCACTCTCTGATTTGGCGCTGTACTTGTATGTTT 842  
DB 276 AAGGATAAAGCCCTGAAACAGGCCACTCTCTGATTTGGCGCTGTACTTGTATGTTT 217  
QY 843 GTTGTGTTTTGTGGGATGGTGTCTTTTAAACACTAAGGAAAGGAAAGAGAGAGAGAGCT 902  
DB 216 GTTGTGTTTTGTGGGATGGTGTCTTTTAAACACTAAGGAAAGGAAAGAGAGAGAGAGCT 157  
QY 903 GGCCTCTCTCATGAATGTGAAACCATCAAAAGGGAGAGAAAAGAGAGCAACAGACCAAC 962  
DB 156 GGCCTCTCTCATGAATGTGAAACCATCAAAAGGGAGAGAAAAGAGAGCAACAGACCAAC 97  
QY 963 GAAAGAGTACCATACCACTGAGAGATCTGATGAAGCCAGTGTGTAACATTTTG 1022  
DB 96 GAAAGAGTACCATACCACTGAGAGATCTGATGAAGCCAGTGTGTAACATTTTG 37  
QY 1023 AAGACAGCTCAGGGGACAAAAT 1046  
DB 36 AAGACAGCTCAGGGGACAAAAT 13

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RESULT 7
US-10-790-396-9 .
; Sequence 9, Application US/10790396
; Publication No. US20040157296A1
; GENERAL INFORMATION:
; APPLICANT: Sim, Gek-Kee
; APPLICANT: Yang, Shumin
; APPLICANT: Sellins, Karen S.
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY
; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF
; FILE REFERENCE: IM-1-C1-PCT
; CURRENT APPLICATION NUMBER: US/10/790,396
; CURRENT FILING DATE: 2004-03-01
; PRIOR APPLICATION NUMBER: US/09/646,561
; PRIOR FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: 60/078,765
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 09/062,597
; PRIOR FILING DATE: 1998-04-17
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 9
; LENGTH: 987
; TYPE: DNA
; ORGANISM: Canis familiaris
US-10-790-396-9

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Query Match	71.6%;	Score 772.8;	DB 19;	Length 987;
Best Local Similarity	88.8%;	Pred. No. 1.3e-217;		
Matches 860;	Conservative 0;	Mismatches 102;	Indels 6;	Gaps 2
Qy	79	GCATATGGGACTGAGTCACACTCTCCCTGTGTGATGGCCCTCTGCTCTCTGATGTTCTTT	138	
Db	14	GCATATGGAACTGAATAACATTTCTTTGTGTGATGACCCCTCTGCTCTATGTGTGCTGTT	73	
Qy	139	CCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGCGATGCCATTTTACAAACT	198	
Db	74	CCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGCGATGCCATTTTACAAATT	133	
Qy	199	CTCAAAACATTAAGCCTTGATGAGCTGGTAGTATTTTGGGAGGACACAGGATAAGCTGGTTC	258	
Db	134	CTCAAAACATTAAGCCTTGATGAGCTGGTAGTATTTTGGGAGGACACAGGATAAGCTGGTTC	193	
Qy	259	TGTTATGAGATATTCAGAGGGCAAGAGAACCTTCAAAAATGTTTCATCTCAAAATAAAGGGCC	318	
Db	194	TGTAGGAGCTATACAGAGGCAAGAGAACCTTCAAAAATGTTTCATCGAAAGTATAAAGGGCC	253	
Qy	319	GTAACAAGCTTTTGACAAGGACAACTGGAGCCCTGGAGACTCCACAATGTTTCAGATCAAGGACA	378	
Db	254	GCAACAAGCTTTTGACAAGGACAAATTTGGACCCCTGGAGACTCCATAATATTCAGATCAAGGACA	313	
Qy	379	AGGGACATATCACTGTTTTCAATTTATTAAGGGCCCAAGGACTAGTTCCTCATGCACTC	438	
Db	314	AGGGCTTGATCAATGTTTTCGTTTCATCATAAAGGGCCCAAGGACTCGTTCCTCATGCACTC	373	
Qy	439	AAATGAGTTCTTGACCTATCAGTGCTTGCTTAACCTTCAGTCAACCTCAAAATAACAGTAAC	498	
Db	374	AGATGAATCTTGACCTATCAGTGCTTGCTTAACCTTCAGTCAACCTCAAAATAATGGTAAC	433	
Qy	499	CTAATAGAACAGAAAAATCTGGCATCATAAATTTTGACCTGCTCATCTATACAAAGGTTACC	558	
Db	434	CTAATAGAACAGAAAAATCTGGCATCATAAATTTTGACCTGCTCATCTATACAAAGGTTACC	493	
Qy	559	CAGAACCTTAAGGAGATGATTTTTCAGCTTAAACACTGAGAAATTCAACTAAGTATGATA	618	
Db	494	CAGAACCCCAAGGAGATGATTTTTCAGCTTAAACACTGAGAAATTCAACTAAGTATGATA	553	
Qy	619	CTGTATCAAGAAATCTCAAAATATATGTGACAGAACTGTACAAACGTTTCTATCAGCTGC	678	
Db	554	CTGTATCAAGAAATCTCAAAATATATGTGACAGAACTGTACAAACGTTTCTATCAGCTGC	613	
Qy	679	CTTTTTTCAGTCCCTGGAAGCACAAATGTGAGCGCTTTTGTGCGCCCTGAAACTGGAACAC	738	

614	Db	CTTTCTCAGTCGCCCTTGAAGCAAGCAATGTGAGCATCTTCTGTGTCTCTGCAACTTGTAGTCA	673
739	Qy	TGGAGATGCTGCTCTCCCTACTCTTCTCAATATAGATGCAACAACCTAAGGATAAAGACCCCTG	798
574	Db	T---GAAGCTTCCTCCTCTACCTTATATATAGATGCACA---TACGAAACCCACCCCTG	727
799	Qy	AACAAGGCCACTTCCTCTGGATTGCGGCTGTACTTGTAAATGTTTGTCTGTTTTTGTGGGA	858
728	Db	ATGGAGACCACATCCTCTGGATTGCGGCTCTGCTTGTAAATGTTGGTTCATTTTGTGTGGGA	787
859	Qy	TGTTGTCTCTTTAAACAACTAAGGAAAGGAAGAGACAGCCCTGGCCCCCTCTCATGAAT	918
788	Db	TGTTGTCTCTTTTCTTAACACTAAGGAAAGGAAGAGACAGCCCTGGCCCCCTCTCATGAAT	847
919	Qy	GTGAACCATCAAAAGGAGAGAAAGAGAGACAAACGAAAGAGTACCATACC	978
848	Db	GTGAACCAACAAAGTGGAGAGAAAGAAAGTGAAGACCAAGGAAGAAGTACGGTACC	907
979	Qy	ACGTACCTGAGAGATCTGTGAAGCCCGCAGTGTGTTAAACATTTTGAAGACAGCCTCAGGGG	1033
908	Db	ATGAACGGAAGAGATCTGATGAACCCCGCAGTGTGTTAACTTTTGAAGACAGCTTCAGGGG	967
1039	Qy	ACAAAAAT	1046
968	Db	ACAACAGT	975

RESULT 8  
 US-10-790-396-10/c  
 ; Sequence 10, Application US/10790396  
 ; Publication No. US20040157296A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sim, Gek-Kea  
 ; APPLICANT: Yang, Shumin  
 ; APPLICANT: Sellins, Karen S.  
 ; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY  
 ; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF  
 ; FILE REFERENCE: IM-1-C1-PCT  
 ; CURRENT APPLICATION NUMBER: US/10/790,396  
 ; CURRENT FILING DATE: 2004-03-01  
 ; PRIOR APPLICATION NUMBER: US/09/646,561  
 ; PRIOR FILING DATE: 2000-09-19  
 ; PRIOR APPLICATION NUMBER: 60/078,765  
 ; PRIOR FILING DATE: 1998-03-19  
 ; PRIOR APPLICATION NUMBER: 03/062,597  
 ; PRIOR FILING DATE: 1998-04-17  
 ; NUMBER OF SEQ ID NOS: 65  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 10  
 ; LENGTH: 987  
 ; TYPE: DNA  
 ; ORGANISM: Canis familiaris  
 US-10-790-396-10

	Query Match	71.6%;	Score 772.8;	DB 19;	Length 987;	
	Best Local Similarity	88.8%;	Pred. No. 1.3e-217;			
	Matches 860;	Conservative 0;	Mismatches 102;	Indels 6;	Gaps 2	
Qy	79	GCACATGGGAC	TGAGTCAGAC	CTCTCTTTG	TATGGCCCTCCTGCTCTCTGCTGTTTCTT	138
Db	974	GCACATGGA	ACTGAAATAA	CATCTCTTTT	TGATGACCCCTCTGCTCTATGCTGCTGCTT	915
Qy	139	CCATGAAGAGT	CAAGCATATTTT	CAAGAAGCTGGAGAA	CTGCCATTCGCCATTTTCAAACT	198
Db	914	CCATGAAGAGT	CAAGCATATTTT	CAAGAAGCTGGAGAA	CTGCCATGCCATTTTCAAAAT	855
Qy	199	CTCAAAACATA	AGCCTGGATGAGCTGT	TGATATTTT	TGGCAGACACAGATAGCTGGTTC	258
Db	854	CTCAAAACATA	AGCCTGGATGAGT	TGATGTTTTT	TGGCAGACACAGATAGCTGGTTC	795
Qy	259	TGATGAGATAT	TTCAGAGGCAAGAGAA	CCCTCAAAATGTTT	CACTCAAAATATAAGGGCC	318
Db	794	TGTACGAGCT	TATACAGAGGCAAGAGAA	CCCTCAAAATGTTT	CACTCGCAAGTATATAAGGGCC	735



Db	853	GTGAAACCAACAAGTGGAGAGAAAAGAAAGTGTAGCGAGACCAAGGAAAGAGTACGTTACC	912
Qy	979	ACGTACCTGTAGAGATCTCATCAAGCCCGAGTGTGTTAACTTTTGAAGACAGCCTCAGGGG	1038
Db	913	ATGAACGGAAAGATCTGATGAAGCCCGAGTGTGTTAACTTTTGAAGACAGCCTCAGCG	972
Qy	1039	ACAAAAAT 1046	
Db	973	ACAACAGT 980	
RESULT 10			
US-10-790-396-8/c			
; Sequence 8, Application US/10790396			
; Publication No. US20040157296A1			
; GENERAL INFORMATION:			
; APPLICANT: Sim, Gek-Kea			
; APPLICANT: Yang, Shumin			
; APPLICANT: Sellins, Karen S.			
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY			
; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF			
; FILE REFERENCE: IM-1-Cl-PC-T			
; CURRENT APPLICATION NUMBER: US/10/790,396			
; CURRENT FILING DATE: 2004-03-01			
; PRIOR APPLICATION NUMBER: US/09/646,561			
; PRIOR FILING DATE: 2000-09-19			
; PRIOR APPLICATION NUMBER: 60/078,765			
; PRIOR FILING DATE: 1998-03-19			
; PRIOR APPLICATION NUMBER: 09/062,597			
; PRIOR FILING DATE: 1998-04-17			
; NUMBER OF SEQ ID NOS: 65			
; SOFTWARE: PatentIn Ver. 2.0			
; SEQ ID NO 8			
; LENGTH: 1897			
; TYPE: DNA			
; ORGANISM: Canis familiaris			
US-10-790-396-8			

Query Match	71.6%;	Score 772.8;	DB 19;	Length 1897;
Best Local Similarity	88.8%;	Pred. No. 1.9e-217;		
Matches 860;	Conservative 0;	Mismatches 102;	Indels 6;	Gaps 2;
QY	79	GCATCTAGGGACTCAGTCACACTCTCTGTGTATGGCCCTCGTCTCTCTGGTGTGTTCTT	138	
Db	1879	GCATATGGAACTGAAATAACATTCCTCTTTGTGATGACCCCTCTGCTCTATGGTGTGCTT	1820	
QY	139	CCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGCCATGCCATTTTACAAACT	198	
Db	1819	CCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGCCATGCCATTTTACAAATT	1760	
QY	199	CTCAAAACATAAGCCTCGATCAGCTGTGTAGTATTTTGGCAGGACCAGATAAGCTGGTTC	258	
Db	1759	CTCAAAACATAAGCCTCGATCAGTGTGGTGTGTTTGGCAGGACCAGATAAGCTGGTTC	1700	
QY	259	TGTATGAGATATTCCAGAGGCAAGAACCCCTCAAAATGTTTCATCTCAAAATATAAGGGCC	318	
Db	1699	TGTACGAGCTATACAGAGGCAAGAGAACCCCTCAAAATGTTTCATCGCAAGTATAAGGGCC	1640	
QY	319	GTACAAGCTTTGACAAGGACAACTGGACCTGGAGACTCCACATGTTTCAGATCAAGGACA	378	
Db	1639	GCAACAAGCTTTGACAAGACAACTTGGACCTTGAGACTCCATAATATTTCAGATCAGGACA	1580	
QY	379	AGGSCACATATCACTGTTTCATTATTAAGAGGGCCCAAGGACTAGTTCCTCATGCACC	438	
Db	1579	AGGCTTGTATCAATGTTTCGTTTCATATAAGAGGGCCCAAGGACTCGTTCCTCATGCACC	1520	
QY	439	AAATGAGTCTTGACCTATCAGTGTCTTAACTTCAGTTCACCTCGTAATACAGTAACTTT	498	
Db	1519	AGATGAATTTGACCTATCAGTGTCTTAACTTCAGTTCACCTCGTAATATGTGTAACTTT	1460	
QY	499	CTAATAGAACAGAAAAATTTCTGGCATCAAAATTTGACGTGCTCATCTATACAAGGTTACC	558	
Db	1459	CTAATAGAACAGAAAAATTTCTGGCATCAAAATTTGACGTGCTCATCAATACAAGGTTACC	1400	

```

RESULT 11
US-10-790-396-19
: Sequence 19, Application US/10790396
: Publication No. US20040157296A1
: GENERAL INFORMATION:
: APPLICANT: Sim, Gek-Kee
: APPLICANT: Yang, Shumin
: APPLICANT: Sellins, Karen S.
: TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY
: TITLE OF INVENTION: ACID MOLECULS, AND USES THEREOF
: FILE REFERENCE: IM-1-C1-PCT
: CURRENT APPLICATION NUMBER: US/10/790,396
: CURRENT FILING DATE: 2004-03-01
: PRIOR APPLICATION NUMBER: US/09/646,561
: PRIOR FILING DATE: 2000-09-19
: PRIOR APPLICATION NUMBER: 60/078,765
: PRIOR FILING DATE: 1998-03-19
: PRIOR APPLICATION NUMBER: 09/062,597
: PRIOR FILING DATE: 1998-04-17
: NUMBER OF SEQ ID NOS: 65
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 19
: LENGTH: 840
: TYPE: DNA
: ORGANISM: Canis familiaris
US-10-790-396-19

Query Match          53.9%;      Score 582.2;   DB 19;      Length 840;
Best Local Similarity 89.4%;      Pred. No. 3.le-161;
Matches 639; Conservative 0; Mismatches 73; Indels 3; Gaps 1;

Qy 79 GCAC TATGGAC TGAAGTCA CACTCTCTCTGTGATGGCCCTCTCTGCTCTCTGGTGTTCTT 138
Db 14 GCAC TATGGAACTGAATAA CATTCTCTTGTGATGACCTCCCTGCTCTATGCGTCTGCTT 73

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QY 139 CCATGAAGAGTCAAGCATATTTCAACAGACTGGAGAACTGCCATGCCATTTTACAAACT 198  
 DB 74 CCATGAAGAGTCAAGCATATTTCAACAGACTGGAGAACTGCCATGCCATTTTACAAACT 133  
 QY 199 CTCAAAACAATAGCCTGGATGAGCTGGTAGTATTTTGGCAGGACAGGAGTAAGCTGGTTC 258  
 DB 134 CTCAAAACAATAGCCTGGATGAGCTGGTAGTATTTTGGCAGGACAGGAGTAAGCTGGTTC 193  
 QY 259 TGTATGAGATATTTACAGAGCAAGAGAACCTTCAAAATGTTTCATCTCAAAATATAAGGGCC 318  
 DB 194 TGTACGAGCTATACAGAGCAAGAGAACCTTCAAAATGTTTCATCGCAAGTATAAGGGCC 253  
 QY 319 GTACAAGCTTTGACAGGACCACTGGACCTGAGACTCCAAATGTTTCAGATCAAGGACA 378  
 DB 254 GCACAAGCTTTGACAGGACCACTGGACCTGAGACTCCAAATGTTTCAGATCAAGGACA 313  
 QY 379 AGGGCACATATCACTGTTTCATTTCAATTAAGGGCCCAAGGACTAGTTCCTCATGCACC 438  
 DB 314 AGGGCTTGTATCATGTTTCATTAAGGGCCCAAGGACTAGTTCCTCATGCACC 373  
 QY 439 AAATGAGTTCTGACCTTATCAGTGTCTTGTAACTTTCAGTCAACCTGAAATAACAGTAACCT 498  
 DB 374 AGATGAAATCTGACCTTATCAGTGTCTTGTAACTTTCAGTCAACCTGAAATAACAGTAACCT 433  
 QY 499 CTAATGAGACAGAAATCTGGCATCATAAATTTGACCTGCTCATCTATCAAGGTTACC 558  
 DB 434 CTAATGAGACAGAAATCTGGCATCATAAATTTGACCTGCTCATCTATCAAGGTTACC 493  
 QY 559 CAGAACCTAAGGAGATGATTTTTCAGTAACTGACAGAACTGACAACTCACTACTAGTATGATA 618  
 DB 494 CAGAACCTAAGGAGATGATTTTTCAGTAACTGACAGAACTGACAACTCACTACTAGTATGATA 553  
 QY 619 CTGTCTATGAAGAAATCTCAAAATAATGTGACAGAACTGTACAACTGTTCTATCAGCTGC 678  
 DB 554 CTGTCTATGAAGAAATCTCAAAATAATGTGACAGAACTGTACAACTGTTCTATCAGCTGC 613  
 QY 679 CTTTTCAGTCCCTGGAAGACACAATGTGAGCGTCTTTTGTGCGCCCTGAAACTGGAGACAC 738  
 DB 614 CTTTTCAGTCCCTGGAAGACACAATGTGAGCGTCTTTTGTGCGCCCTGAAACTGGAGACAC 673  
 QY 739 TGGAGATGCTGCTCTCCCTACCTTTCAATATAGATGCACAACTTAAGGATAAGA 793  
 DB 674 T---GAAGCTTCCCTCCCTACCTTTAATATAGAAACCAACAAAGTGGAGAGAAA 725

RESULT 12

US-10-790-396-20/c  
 ; Sequence 20, Application US/10790396  
 ; Publication No. US20040157296A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sim, Gek-Kee  
 ; APPLICANT: Yang, Shumin  
 ; APPLICANT: Sellins, Karen S.  
 ; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC  
 ; FILE REFERENCE: IM-1-CI-PCT  
 ; CURRENT APPLICATION NUMBER: US/10/790,396  
 ; PRIOR FILING DATE: 2004-03-01  
 ; PRIOR FILING DATE: 2000-09-19  
 ; PRIOR FILING DATE: 1998-03-19  
 ; PRIOR FILING DATE: 1998-03-19  
 ; PRIOR FILING DATE: 1998-04-17  
 ; NUMBER OF SEQ ID NOS: 65  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 20  
 ; LENGTH: 840  
 ; TYPE: DNA  
 ; ORGANISM: Canis familiaris  
 US-10-790-396-20

Query Match

53.9%; Score 582.2; DB 19; Length 840;

Best Local Similarity 89.4%; Pred. No. 3.1e-161;  
 Matches 639; Conservative 0; Mismatches 73; Indels 3; Gaps 1;  
 QY 79 GCACATATGGAGTCAAGTCACTCTCTGTGATGGCCCTCTGCTCTCTGTGTTTCTT 138  
 DB 827 GCACATATGGAGTCAAGTCACTCTCTGTGATGGCCCTCTGCTCTCTGTGTTTCTT 768  
 QY 139 CCATGAAGAGTCAAGCATATTTCAACAGACTGGAGAACTGCCATGCCATTTTACAAACT 198  
 DB 767 CCATGAAGAGTCAAGCATATTTCAACAGACTGGAGAACTGCCATGCCATTTTACAAACT 708  
 QY 199 CTCAAAACAATAGCCTGGATGAGCTGGTAGTATTTTGGCAGGACAGGAGTAAGCTGGTTC 258  
 DB 707 CTCAAAACAATAGCCTGGATGAGCTGGTAGTATTTTGGCAGGACAGGAGTAAGCTGGTTC 648  
 QY 259 TGTATGAGATATTTACAGAGCAAGAGAACCTTCAAAATGTTTCATCTCAAAATATAAGGGCC 318  
 DB 647 TGTATGAGATATTTACAGAGCAAGAGAACCTTCAAAATGTTTCATCTCAAAATATAAGGGCC 588  
 QY 319 GTACAAGCTTTGACAGGACCACTGGACCTGAGACTCCAAATGTTTCAGATCAAGGACA 378  
 DB 587 GTACAAGCTTTGACAGGACCACTGGACCTGAGACTCCAAATGTTTCAGATCAAGGACA 528  
 QY 379 AGGGCACATATCACTGTTTCATTTCAATTAAGGGCCCAAGGACTAGTTCCTCATGCACC 438  
 DB 527 AGGGCTTGTATCAATGTTTCATTTCAATTAAGGGCCCAAGGACTAGTTCCTCATGCACC 468  
 QY 439 AAATGAGTTCTGACCTTATCAGTGTCTTGTAACTTTCAGTCAACCTGAAATAACAGTAACCT 498  
 DB 467 AGATGAAATCTGACCTTATCAGTGTCTTGTAACTTTCAGTCAACCTGAAATAACAGTAACCT 408  
 QY 499 CTAATGAGACAGAAATCTGGCATCATAAATTTGACCTGCTCATCTATCAAGGTTACC 558  
 DB 407 CTAATGAGACAGAAATCTGGCATCATAAATTTGACCTGCTCATCTATCAAGGTTACC 348  
 QY 559 CAGAACCTAAGGAGATGATTTTTCAGTAACTGACAGAACTGTACAACTGTTCTATCAGCTGC 618  
 DB 347 CAGAACCTAAGGAGATGATTTTTCAGTAACTGACAGAACTGTACAACTGTTCTATCAGCTGC 288  
 QY 619 CTGTCTATGAAGAAATCTCAAAATAATGTGACAGAACTGTACAACTGTTCTATCAGCTGC 678  
 DB 287 CTGTCTATGAAGAAATCTCAAAATAATGTGACAGAACTGTACAACTGTTCTATCAGCTGC 228  
 QY 679 CTTTTCAGTCCCTGGAAGACACAATGTGAGCGTCTTTTGTGCGCCCTGAAACTGGAGACAC 738  
 DB 227 CTTTTCAGTCCCTGGAAGACACAATGTGAGCGTCTTTTGTGCGCCCTGAAACTGGAGACAC 168  
 QY 739 TGGAGATGCTGCTCTCCCTACCTTTCAATATAGATGCACAACTTAAGGATAAGA 793  
 DB 167 T---GAAGCTTCCCTCCCTACCTTTAATATAGAAACCAACAAAGTGGAGAGAAA 116

RESULT 13

US-10-790-396-16  
 ; Sequence 16, Application US/10790396  
 ; Publication No. US20040157296A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sim, Gek-Kee  
 ; APPLICANT: Yang, Shumin  
 ; APPLICANT: Sellins, Karen S.  
 ; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC  
 ; FILE REFERENCE: IM-1-CI-PCT  
 ; CURRENT APPLICATION NUMBER: US/10/790,396  
 ; PRIOR FILING DATE: 2004-03-01  
 ; PRIOR FILING DATE: 2000-09-19  
 ; PRIOR FILING DATE: 1998-03-19  
 ; PRIOR FILING DATE: 1998-03-19  
 ; PRIOR FILING DATE: 1998-04-17  
 ; NUMBER OF SEQ ID NOS: 65  
 ; SOFTWARE: PatentIn Ver. 2.0

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: SEQ ID NO 15
:
: LENGTH: 1795
:
: TYPE: DNA
:
: ORGANISM: Canis familiaris
:
: FEATURE:
:
: NAME/KEY: CDS
:
: LOCATION: (7) .. (846)
:
: US-10-790-396-16

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Query Match	53.9%	Score 582.2	DB 19	Length 1795
Best Local Similarity	89.4%	Pred. No. 4.8e-161		
Matches 639	Conservative 0	Mismatches 73	Indels 3	Gaps 1
Qy	79	GCATATGGGACTGAGTCACACTCTCTTGTGATGGCCCTCCTGCTCTCTGGTGTTCCTT	138	
Db	20	GCATATGGAACTGAATAACATCTCTTGTGATGACCCCTCCTGCTCTATNGGTGCTGCTT	79	
Qy	139	CCATGAAGAGTCAAGCATATTTCAACAAGACTCGAGAACTGCCATGCCATTTTACAAACT	198	
Db	80	CCATGAAGAGTCAAGCATATTTCAACAAGACTCGAGAACTGCCATGCCATTTTACAAAT	139	
Qy	199	CTCAAAACATGAAGCTGGATGAGCTGGTAGTATTTTGGCAGGACACAGATAGCTGGTTC	258	
Db	140	CTCAAAACATGAAGCTGGATGAGCTGGTAGTATTTTGGCAGGACACAGATAGCTGGTTC	199	
Qy	259	TGTATGAGATATTCAGAGGCAAGAGAACCTCAAAATGTTTCATCTCAAAATGAAGGCC	318	
Db	200	TGTACGAGCTATAAGAGGCAAGAGAACCTCAAAATGTTTCATCGCAAGTATGAAGGCC	259	
Qy	319	GTAACAAGCTTTGACAAGGACAACTGGGACCCCTGAGACTCCAATATGTTTCAGATCAAGGACA	378	
Db	260	GCAACAGCTTTGACAAGGACAACTGGGACCCCTGAGACTCCAATATTTTCAGATCAAGGACA	319	
Qy	379	AGGCAACATATCACTGTTTCATTCATTAAGGGCCCAAGGACTAGTTCCTCATGCAAC	438	
Db	320	AGGCTTTGTATCAATGTTTCGTTTCATTAAGGGCCCAAGGACTCGTTCCTCATGCAAC	379	
Qy	439	AAATGAGTCTGACCTATCAGTGCCTGCTAACTTCAGTCAACCTGGAATTAACAGTAACTT	498	
Db	380	AGATGAATTTGACCTATCAGTGCCTGCTAACTTCAGTCAACCTGGAATTAATGTTAACTT	439	
Qy	499	CTAATAGAACAGAAAAATCTGGCATCATAAATTTGACCTGCTCATCTATACAAGGTTACC	558	
Db	440	CTAATAGAACAGAAAAATCTGGCATCATAAATTTGACCTGCTCATCTATACAAGGTTACC	499	
Qy	559	CAGAACCTAAGGAGATGTAATTTTCAGCTAAACAACATGAGAAATTAACATCAAGTATGATA	618	
Db	500	CAGAACCAAGGAGATGTAATTTTGGTAAAAACCGAGAAATTCAGTAACTAAAGTATGATA	559	
Qy	619	CTGTCATGAAGAAATCTCAAAATTAATGTGACAGAACTGTACAACGTTTCTATCAGCTTGC	678	
Db	560	CTGTCATGAAGAAATCTCAAAATTAATGTGACAGAACTGTACAACGTTTCTATCAGCTTGT	619	
Qy	679	CTTTTTCAGTCCCTGGAAGCACCAATGTGAGCGCTTTTGTGTCCTGAAACTGAGAGCAC	738	
Db	620	CTTCTCAGTCCCTGGAAGCAAGCAATGTGAGCATCTTCTGTGTCTCTGCNACTTGTGCTCA	679	
Qy	739	TGGAGATGCTGCTCTCCCTACCTTTTCAATATAGATGACAACTTAAGATTAAGA	793	
Db	680	T---GAAGCTTCCCTCCCTACCTTTAATATAGAAAAACCAAAAGTGGAGAGAA	731	

RESULT 14  
US-10-790-396-18/c  
; Sequence 18, Application US/10790396  
; Publication No. US20040157296A1  
; GENERAL INFORMATION:  
; APPLICANT: Sim, Gek-Keo  
; APPLICANT: Yang, Shumin  
; APPLICANT: Sellins, Karen S.  
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY  
; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF  
; FILE REFERENCE: IM-1-CI-PCT

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; CURRENT APPLICATION NUMBER: US/10/790,396
; CURRENT FILING DATE: 2004-03-01
; PRIOR APPLICATION NUMBER: US/09/646,561
; PRIOR FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: 60/078,765
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 09/062,597
; PRIOR FILING DATE: 1998-04-17
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 18
; LENGTH: 1795
; TYPE: DNA
; ORGANISM: Canis familiaris
US-10-790-396-18

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Query Match	53.9%; Score 582.2; DB 19; Length 1795;
Best Local Similarity	89.4%; Pred. No. 4.8e-161;
Matches 639; Conservative 0; Mismatches 73; Indels 3; Gaps 1;	
QY 79	GCACATATGGAGCTGAGTACACACTCCCTCTGTGATGGCCCTCTGCTCTCTGGTGTTCCTT 138
DB 1776	GCACATATGGAACTGAATAACATCTCTTTGTGATGACCCCTCTGCTCTATGGTGTCTGCTT 1717
QY 139	CCATGAAGAGCTCAAGCATATTTCAACAAGAGCTGGAGAACTGCCATGCCATTTTACAAACT 198
DB 1716	CCATGAAGAGCTCAAGCATATTTCAACAAGAGCTGGAGAACTGCCATGCCATTTTACAAATT 1657
QY 199	CTCAAAACATAAGCTCGATGAGCTGTGTAGTATTTTGGCAGAGCACGAGTAAGCTGGTTC 258
DB 1656	CTCAAAACATAAGCTCGATGAGCTGTGTAGTATTTTGGCAGAGCACGAGTAAGCTGGTTC 1597
QY 259	TGTATGAGATATTCAGAGGCAAGAGAACCCCTCAAAATGTTTCATCTCAAAATATAAGGCC 318
DB 1596	TGTACGAGCTATACAGAGGCAAGAGAACCCCTCAAAATGTTTCATCGCAAGTATAAGGCC 1537
QY 319	GTACAAGCTTTGACAAGGACAACTGGACCCCTGAGACTCCAATGTTTCAGATCAAGGACA 378
DB 1536	GCACAAGCTTTGACAAGGACAACTTGGACCCCTGAGACTCCAATATATTTCAAGTCAAGGACA 1477
QY 379	AGGCACTATCACTGTTTTCATTCATATTAAGAGGCCCAAGAGACTAGTTCCTCATGCAAC 438
DB 1476	AGGCTTGTATCAATGTTTTCGTTTCATCATTAAGAGGCCCAAGAGACTCGTTCCTCATGCAAC 1417
QY 439	AAATGAGTCTCTGACCTATCAGTGCCTGCTAACTTCAGTCAACCTGAAATTAACAGTAACCT 498
DB 1416	AGATGAATTCAGACCTATCAGTGCCTGCTAACTTCAGTCAACCTGAAATTAATCGTAACCT 1357
QY 499	CTAATAGAACAGAAAAATTCGGCATCATAAATTTGACCTGCTCATCTATACAAGTTTACC 558
DB 1356	CTAATAGAACAGAAAAATTCGGCATCATAAATTTGACCTGCTCATCTATACAAGTTTACC 1297
QY 559	CAGAACCTAAGGAGATGTATTTTCAGCTAAACACTGAGAAATTCAACTACTAAGTATGATA 618
DB 1296	CAGAACCAAGGAGATGTATTTTTCGTAAGAAACCGAGAAATTCAGGACTAAGATATGATA 1237
QY 619	CTGTATGAAGAAATCTCAAAAATAATGTGACAGAACTGTACAACGTTTCTATCAGCTTGC 678
DB 1236	CTGTATGAAGAAATCTCAAAAATAATGTACAGAACTCTACAACGTTTCTATCAGCTTGT 1177
QY 679	CTTTTTCAGTCCCTGAGACACAAATGTGAGCGTCTTTTGTGCCCCTGAAACTGGAGACAC 738
DB 1176	CCTTCTCAGTCCCTGAGCAAGCAATGTGAGCATCTTCTGTGCTGCTGCAACTTGGAGTCAA 1117
QY 739	TGGNGATGTGCTCTCCCTACCTTTCAATATAGATGCACAACTTAAGGATAAAGA 793
DB 1116	T---GAAGCTTCCTCCCTACCTTTAATATAGAAACCAACAAAGTGGAGAGAAA 1065

RESULT 15  
US-09-962-436-556  
; Sequence 556, Application US/09962436  
; Patent No. US20020081301A1

## GENERAL INFORMATION:

APPLICANT: Soppet, Daniel  
TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu  
FILE OF INVENTION: Sets  
FILE REFERENCE: 689290-75  
CURRENT APPLICATION NUMBER: US/09/962,436  
CURRENT FILING DATE: 2001-09-25  
PRIOR APPLICATION NUMBER: US/60/235,082  
PRIOR FILING DATE: 2000-09-25  
PRIOR APPLICATION NUMBER: US/60/234,924  
PRIOR FILING DATE: 2000-09-25  
NUMBER OF SEQ ID NOS: 568  
SOFTWARE: PatentIn version 3.0  
SEQ ID NO 556  
LENGTH: 1424  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-962-436-556

Query Match 53.8%; Score 580.6; DB 9; Length 1424;

Best Local Similarity 75.9%; Pred. No. 1.3e-160;

Matches 802; Conservative 0; Mismatches 234; Indels 21; Gaps 6;

QY	1	GTCTCTGTTCTCTCGGAATGTCACCTGAGCTTATACATCTGCTCTCTG---GGAGCTGC	57
Db	62	GCTTCTGTTCTCTCGGAATGCTGCTGCTTATGCACTGCTCTCTTTTGGAGCTAC	121
QY	58	AGTGGATGGGCAATTTCTGACAGCACTATGGGACTGAGTCACACTCTCTCTGTGTGATGGCCC	117
Db	122	AGTGGACAGGCATTTGTGACAGCACTATGGGACTGAGTAACATCTCTTTGTGTGGCCT	181
QY	118	TCCTGCTCTCTGTTCTCTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAAC	177
Db	182	TCCTGCTCTCTGTTCTCTCTGAGATTCAGCTTATTTCAATGAGACTGCAGACC	241
QY	178	TGCGATGCCAATTTCAAACTCTCAAAACATGAAGCTGGATGAGCTGGTAGTATTTTGGC	237
Db	242	TGCGATGCCAATTTGCAAACTCTCAAAACCAAAAGCTGAGTGAGCTAGTAGTATTTTGGC	301
QY	238	AGGACCAAGATAGCTGTTCTGTATGAGATTTAGAGGCAAGAGCAAGCCCTCAAAATG	297
Db	302	AGGACCAAGAAACTTTGGTTCTGAATGAGGTATCTTGGCAAGAGAAATTTGACAGTG	361
QY	298	TTTCATCTCAATATAGGCGCGGTACAAAGCTTTTGACAAGGACAACTGGACCTGAGACTCC	357
Db	362	TTTCATCTCAAGTATATGGGCGCGCAAGTTTGTATCGGACAGTTGGACCTGAGACTTC	421
QY	358	ACAATGTTGAGATCAAGGCAAGGGCACATATCATCTGTTTTCATTTCAATTAAGGGCCCA	417
Db	422	ACAATCTTCAGATCAAGGCAAGGGCTTGTATCAATGTATCATCCATCACAAAAAGCCCA	481
QY	418	AAGGACTAGTTCCCATGCAACCAATAGTTCTGACCTATCAGTGTGCTTAACCTTCAGTC	477
Db	482	CAGGAATGATTCGATCCACAGATGAATTTCTGAACTGTCAGTGTGCTTAACCTTCAGTC	541
QY	478	AACCTGAAATACAGTAACTTCTTAATAGAACAGAAATTTGSCATCATATAATTTGACCT	537
Db	542	AACCTGAAATAGTACCAATTTCTAATTAACAGAAAA---TGTTACATAAATTTGACCT	598
QY	538	GCTCATCTATACAGGTTACCCAGAACCTTAAGGAGATGTATTTTCAGCTTAAACACTGAGA	597
Db	599	GCTCATCTATACAGGTTACCCAGAACCTTAAGGAGATGTATTTTGTCTAAGAACCAAGA	658
QY	598	ATTCAACTACTAAGTATGATCTGTCATGAAGAAATCTCAAAATATATGTGACAGAACTGT	657
Db	659	ATTCAACTATCGAGTATGATGTATTTATGCAGAAATCTCAAGATATATGTACAGAACTGT	718
QY	658	ACAAAGTTTCTATCAGCTTGCCTTTTTCAGTCCCTGAAG---CACACAATGTGAGCTCT	714
Db	719	ACAAAGTTTCCATCAGCTTGTCTGTTTCATTTCCCTGATGTATGAGCAATATGACCATCT	778
QY	715	TTTGTGCCCTGAAACTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTCAATATAGATG	774

Search completed: August 20, 2005, 12:26:33

Job time : 826 secs

Db	779	TCGTATTCTTGAAAACCTGACA---AGACGCGCTTTTATCTTTCACCTTTCTCTATAG---	832
QY	775	CACAAACCTAAGGATAAAGACCCTGAACAAGGCCACTTCTCTGGATTGGGCTGTACTTG	834
Db	833	---AGCTTGAGGACCCCTCAGCCTCCCCCAGACCACATTCCTTGGATTACAGCTGTACTTC	889
QY	835	TAATGTTGTTGTTTGTGGGATGGTGTCTTTTAAACACATAAGGAAAAAGGAAAGA	894
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QY	895	AGCAGCCTGGCCCTCTCATGAATGTGAACCATCAAAAGGAGAGAAAAGAGGACCAAC	954
Db	950	AGCGGCTCGCAACTCTTATAAATGTGGAACCAACACAAATGGAGAGGGAAGAGTGAAC	1009
QY	955	AGACCAACGAAAGAGTACCATACCCAGCTACCTGAGAGATCTCATGAAGCCAGTGTG---	1011
Db	1010	AGACCAAGAAAGAGAAAAATCCATATACCTGAAAGATCTCATGAAGCCAGCTGTTT	1069
QY	1012	TTAAACATTTTGAAGACAGCCTCAGGGGACAAAAATCA	1048
Db	1070	TTAAAAAGTTGGAAGACATCTTTCATGCGACAAAAGTGA	1106

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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: August 20, 2005, 00:39:50 ; Search time 18712 Seconds  
(without alignments)  
2356.183 Million cell updates/sec

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Perfect score: 1080

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Gapop 10.0 , Gapext 1.0

Searched: 45554873 seqs, 20411521753 residues

Total number of hits satisfying chosen parameters: 91109746

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	1080	100.0	1080	20	US-09-303-510-5
4	1041.2	96.4	2830	16	US-09-062-597A-25
5	1041.2	96.4	2830	16	US-09-062-597A-27
6	1041.2	96.4	2830	29	US-09-646-561-25
7	1041.2	96.4	2830	29	US-09-646-561-27
8	1041.2	96.4	2830	62	US-10-790-396-25
9	1041.2	96.4	2830	62	US-10-790-396-27
10	979.2	90.7	996	16	US-09-062-597A-28
11	979.2	90.7	996	16	US-09-062-597A-29
12	979.2	90.7	996	29	US-09-646-561-28
13	979.2	90.7	996	29	US-09-646-561-29
14	979.2	90.7	996	62	US-10-790-396-28
15	979.2	90.7	996	62	US-10-790-396-29
16	772.8	71.6	987	16	US-09-062-597A-9
17	772.8	71.6	987	16	US-09-062-597A-10
18	772.8	71.6	987	29	US-09-646-561-9
19	772.8	71.6	987	29	US-09-646-561-10
20	772.8	71.6	987	62	US-10-790-396-9
21	772.8	71.6	987	62	US-10-790-396-10
22	772.8	71.6	1897	16	US-09-062-597A-6
23	772.8	71.6	1897	16	US-09-062-597A-8
24	772.8	71.6	1897	29	US-09-646-561-6
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28	772.8	71.6	1897	66	US-10-956-160-2850
29	772.8	71.6	1897	120	US-60-507-481-2850
30	612.4	56.7	994	37	US-09-868-605-13
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35	582.2	53.9	840	62	US-10-790-396-19
36	582.2	53.9	840	62	US-10-790-396-20
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42	582.2	53.9	1795	62	US-10-790-396-18
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ALIGNMENTS

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; Sequence 5, Application US/09071699A									
; GENERAL INFORMATION:									
; APPLICANT: Collisson, Ellen W									
; APPLICANT: Hash, Stephen M.									
; APPLICANT: Insou, Choi									
; TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CTLA-4 Nucleic Acid									
; TITLE OF INVENTION: And Polypeptides									
; FILE REFERENCE: 54954-A									
; CURRENT APPLICATION NUMBER: US/09/071,699A									
; CURRENT FILING DATE: 1998-05-01									
; NUMBER OF SEQ ID NOS: 55									
; SOFTWARE: PatentIn Ver. 2.0									
; SEQ ID NO 5									
; LENGTH: 1080									
; TYPE: DNA									
; ORGANISM: feline CD86									
; FEATURE:									
; NAME/KEY: CDS									
; LOCATION: (63)..(1052)									
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Matches 1080; Conservative 0; Mismatches 0; Indels 0; Gaps 0;									
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Db	1	GTTCCTGTTCTCTCGGAATGTCTGAGCTTATACATCTGCTCTCGGAGCTGCAGT	60						
QY	61	GGATGGGCAATTTGTGACAGCACTATGGGAGTGGTGCAGTCTCTCTGTGATGGCCCTCC	120						
Db	61	GGATGGGCAATTTGTGACAGCACTATGGGAGTGGTGCAGTCTCTCTGTGATGGCCCTCC	120						
QY	121	TGCTCTCTGTTCTTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAAGTGC	180						
Db	121	TGCTCTCTGTTCTTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAAGTGC	180						
QY	181	CATGCCATTTTACAAACTCTCAAAACATAAGCTGGATGAGTGTAGTAGTTTGGCAGG	240						
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QY	241	ACCAGGATAAGCTGTTCTCTGATGAGATATTTCAGAGGCAAGAGAACTCTCAAAATGTTTC	300						
Db	241	ACCAGGATAAGCTGTTCTCTGATGAGATATTTCAGAGGCAAGAGAACTCTCAAAATGTTTC	300						
QY	301	ATCTCAAAATATAAGGGCGGTACAAGCTTTGACAAGGACAACCTGGACCTGAGACTCCACA	360						
Db	301	ATCTCAAAATATAAGGGCGGTACAAGCTTTGACAAGGACAACCTGGACCTGAGACTCCACA	360						
QY	361	ATGTTTCAGATCAAGGACAAGGCAATATCACTGTTTCATTCATTTATAAGGGCCCAAG	420						
Db	361	ATGTTTCAGATCAAGGACAAGGCAATATCACTGTTTCATTCATTTATAAGGGCCCAAG	420						
QY	421	GACTAGTTTCCCATGACCAAAATGAGTCTGACCTATCACTGCTGCTTAACCTCAGTCAAC	480						
Db	421	GACTAGTTTCCCATGACCAAAATGAGTCTGACCTATCACTGCTGCTTAACCTCAGTCAAC	480						
QY	481	CTGAAATTAACAGTAACTTCTAATAGAAACAGAAATTTCTGGCATCATAAATTTGACCTGCT	540						
Db	481	CTGAAATTAACAGTAACTTCTAATAGAAACAGAAATTTCTGGCATCATAAATTTGACCTGCT	540						
QY	541	CATCTATCAAGGTTTACCAGAACCTTAGGAGATGATTTTTCAGTCAACACTGGAATTT	600						
Db	541	CATCTATCAAGGTTTACCAGAACCTTAGGAGATGATTTTTCAGTCAACACTGGAATTT	600						
QY	601	CAACTACTAAGTATGATATCTGTCTGAAGAAATCTCAAAATAATGTGACAGAACTGTACA	660						
Db	601	CAACTACTAAGTATGATATCTGTCTGAAGAAATCTCAAAATAATGTGACAGAACTGTACA	660						
QY	661	ACGTTTCTATCAGCTGCTGCTTTTTCAGTCCCTGAGGACACAATGTGAGCGCTTTTGTG	720						
Db	661	ACGTTTCTATCAGCTGCTGCTTTTTCAGTCCCTGAGGACACAATGTGAGCGCTTTTGTG	720						



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; LENGTH: 1080  
; TYPE: DNA  
; ORGANISM: Feline  
US-09-303-510-5

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Best Local Similarity 100.0%; Pred. No. 2.4e-298;  
Matches 1080; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 61 GGATGGGCATTTGTGACAGCACTATGGGACTGAGTCACACTCTCTCTGTGATGGCCCTCC 120  
QY 121 TGCTCTCTGGTGTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGC 180  
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QY 181 CATGCCATTTTCAAACTCTCAAAACATAAGCTGAGCTGTAGTATTTTGGCAGG 240  
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QY 301 ATCTCAAAATATAAGGCCCGTACAACTTTTGACAAGGACAACTGGACCTGAGACTCCACA 360  
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QY 781 CTAAGGATAAAGACCTGTAACAGGACCTTCTCTGGAATTTGGGCTGTACTTGTAAATGT 840  
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Db 841 TTGTTGTTTTTTGTGGATGTTGCTCTTTTAAACACTAAGGAAAGGAAAGAAAGCAGC 900  
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Db 901 CTGGCCCTCTCATGAATGTGAACCATCAAAAGGGAGAGAAAAGAGCAACAGACCA 960

RESULT 4

US-09-062-597A-25  
; Sequence 25, Application US/09062597A

; GENERAL INFORMATION:  
; APPLICANT: Sim, Gek-Ke  
; APPLICANT: Yang Shumin  
; APPLICANT: Sellins, Karen S.  
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY  
; TITLE OF INVENTION: PROTEINS,NUCLEIC ACID MOLECULES, AND  
; TITLE OF INVENTION: USES THEREOF  
; NUMBER OF SEQUENCES: 29  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Carol Talkington Verser, Ph.D.  
; ADDRESSEE: Heska Corporation  
; STREET: 1825 Sharp Point Drive  
; CITY: Fort Collins  
; STATE: Colorado  
; COUNTRY: USA  
; ZIP: 80525

COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: Windows 95  
; SOFTWARE: WordPerfect for Windows, Version 7.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/062,597A  
; FILING DATE: 17-APR-1998  
; CLASSIFICATION: 514

ATTORNEY/AGENT INFORMATION:  
; NAME: Verser, Carol Talkington  
; REGISTRATION NUMBER: 37,459  
; REFERENCE/DOCKET NUMBER: IM-1  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 970/493-7272  
; TELEFAX: 970/484-9505  
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; STRANDEDNESS: single  
; TOPOLOGY: linear  
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; LOCATION: 179..1174

US-09-062-597A-25

Query Match 96.4%; Score 1041.2; DB 16; Length 2830;

Best Local Similarity 99.7%; Pred. No. 5.4e-287;  
Matches 1043; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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Db 177 GGATGGGCATTTGTGACAGCACTATGGGACTGAGTCACACTCTCTCTGTGATGGCCCTCC 236  
QY 121 TGCTCTCTGGTGTCTTCTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGC 180  
Db 237 TGCTCTCTGGTGTCTTCTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGC 296  
QY 181 CATGCCATTTTCAAACTCTCAAAACATAAGCCCTGGATGGTGTAGTATTTTGGCAGG 240

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Db 297 CATGCCATTTTACAACTCTCAAAACATAAGCCTGGATGAGCTGGTAGTATTTTGGCAGG 356
Qy 241 ACCAGGATAAGCTGGTCTGTATGAGATATTTAGAGGCAAGAGAACCTTCAAAATGTTTC 300
Db 357 ACCAGGATAAGCTGGTCTGTATGAGATATTTAGAGGCAAGAGAACCTTCAAAATGTTTC 416
Qy 301 ATCTCAAAATAAAGGCGGTACAAAGCTTTGACAAGGACAACTGGACCTTGAGACTCCACA 360
Db 417 ATCTCAAAATAAAGGCGGTACAAAGCTTTGACAAGGACAACTGGACCTTGAGACTCCACA 476
Qy 361 ATGTTTCAGATCAAGGACAAAGGACATATCACTGTTTTCATTATTAAGGGCCCAAG 420
Db 477 ATGTTTCAGATCAAGGACAAAGGACATATCACTGTTTTCATTATTAAGGGCCCAAG 536
Qy 421 GACTAGTTCCTCATGTCACCAATGAGTTCTGACCTATCACTGCTTGTCTAACTTCAGTCAAC 480
Db 537 GACTAGTTCCTCATGTCACCAATGAGTTCTGACCTATCACTGCTTGTCTAACTTCAGTCAAC 596
Qy 481 CTGAAATAACAGTAACCTTCTTAATAGAACAGAAAATTTCTGGCATATAAAATTTGACCTGCT 540
Db 597 CTGAAATAACAGTAACCTTCTTAATAGAACAGAAAATTTCTGGCATATAAAATTTGACCTGCT 656
Qy 541 CATCTATACAGGTTACCCAGAACCTTAAGGAGATGTATTTTCAGCTAAACACTTGAAAT 600
Db 657 CATCTATACAGGTTACCCAGAACCTTAAGGAGATGTATTTTCAGCTAAACACTTGAAAT 716
Qy 601 CAACTACTAGTATGATACCTGTCATGAAGAAATCTCAAAATAATGTGACAGACTGTACA 660
Db 717 CAACTACTAGTATGATACCTGTCATGAAGAAATCTCAAAATAATGTGACAGAACTGTACA 776
Qy 661 ACCTTTCTATCAGCTTGGCTTTTTCAGTCCCTGAAGCACACAATGTGAGCGTCTTTTGTG 720
Db 777 ACCTTTCTATCAGCTTGGCTTTTTCAGTCCCTGAAGCACACAATGTGAGCGTCTTTTGTG 836
Qy 721 CCTGAAACTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTCAATATAGATGCAAC 780
Db 837 CCTGAAACTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTCAATATAGATGCAAC 896
Qy 781 CTAAGGATAAAGACCTTGACCAAGGCCACTTCTCTCGGATTTGGCGTGTACTTGTATGT 840
Db 897 CTAAGGATAAAGACCTTGACCAAGGCCACTTCTCTCGGATTTGGCGTGTACTTGTATGT 956
Qy 841 TTGTTGTTTTTTGTGGATGGTGTCTCTTTAAACACTAAGGAAAGGAAAGAAAGCAGC 900
Db 957 TTGTTGTTTTTTGTGGATGGTGTCTCTTTAAACACTAAGGAAAGGAAAGAAAGCAGC 1016
Qy 901 CTGGCCCTCTCATGAATGTGAACCAATCAAAAGGGAGAGAAAGAGACAAACAGACCA 960
Db 1017 CTGGCCCTCTCATGAATGTGAACCAATCAAAAGGGAGAGAAAGAGACAAACAGACCA 1076
Qy 961 ACDAAGAGTACCATACCAAGTACCTGAGAGATCTGATGAAGCCCGAGTGTGTAACATTT 1020
Db 1077 ACDAAGAGTACCATACCAAGTACCTGAGAGATCTGATGAAGCCCGAGTGTGTAACATTT 1136
Qy 1021 TGAAGACAGCCTCAGGGGACAAAAT 1046
Db 1137 TGAAGACAGCCTCAGGGGACAAAAT 1162
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RESULT 5

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US-09-062-597A-27/c
; Sequence 27, Application US/09062597A
; GENERAL INFORMATION:
; APPLICANT: Sim, Gek-Kee
; APPLICANT: Yang, Shumin
; APPLICANT: Sellins, Karen S.
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY
; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES, AND
; TITLE OF INVENTION: USES THEREOF
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Carol Talkington Verser, Ph.D.
```

```
ADDRESSEE: Heska Corporation
STREET: 1825 Sharp Point Drive
CITY: Fort Collins
STATE: Colorado
COUNTRY: USA
ZIP: 80525
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows 95
SOFTWARE: WordPerfect for Windows, Version 7.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/062,597A
FILING DATE: 17-APR-1998
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Verser, Carol Talkington
REGISTRATION NUMBER: 37,459
REFERENCE/DOCKET NUMBER: IM-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 970/493-7272
TELEFAX: 970/484-9505
INFORMATION FOR SEQ ID NO: 27:
SEQUENCE CHARACTERISTICS:
LENGTH: 2830 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
US-09-062-597A-27

Query Match 96.4%; Score 1041.2; DB 16; Length 2830;
Best Local Similarity 99.7%; Pred. No. 5.4e-287;
Matches 1043; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 GTTCTGTGTTCTCTGGGAATGTCACTGAGCTTATACATCTGTGTCTCTGGAGCTGCAGT 60
Db 2714 GTTCTGTGTTCTCTGGGAATGTCACTGAGCTTATACATCTGTGTCTCTGGAGCTGCAGT 2655

Qy 61 GGTGGGCAATTTGTGACAGCACTATGGGACTGAGTCACACTCTCTCTGTGATGGCCCTCC 120
Db 2654 GGTGGGCAATTTGTGACAGCACTATGGGACTGAGTCACACTCTCTCTGTGATGGCCCTCC 2595

Qy 121 TGTCTCTGTGTTCTCTCCATGAAGAGTCAAGCATATTTCAACAGACTGGAGAACTGC 180
Db 2594 TGTCTCTGTGTTCTCTCCATGAAGAGTCAAGCATATTTCAACAGACTGGAGAACTGC 2535

Qy 181 CATGCCATTTTCAAACTCTCAAAACATAAAGCCTGGATGAGCTGTGTATTTTGGCAGG 240
Db 2534 CATGCCATTTTCAAACTCTCAAAACATAAAGCCTGGATGAGCTGTGTATTTTGGCAGG 2475

Qy 241 ACCAGGATAAGCTGGTCTGTATGAGATATTCAGAGGCAAGAGAACCTTCAAAATGTTTC 300
Db 2474 ACCAGGATAAGCTGGTCTGTATGAGATATTCAGAGGCAAGAGAACCTTCAAAATGTTTC 2415

Qy 301 ATCTCAAAATAAAGGCGGTACAAAGCTTTGACAAGGACAACTGGACCTTGAGACTCCACA 360
Db 2414 ATCTCAAAATAAAGGCGGTACAAAGCTTTGACAAGGACAACTGGACCTTGAGACTCCACA 2355

Qy 361 ATGTTTCAGATCAAGGACAAAGGACATATCACTGTTTTCATTATTAAGGGCCCAAG 420
Db 2354 ATGTTTCAGATCAAGGACAAAGGACATATCACTGTTTTCATTATTAAGGGCCCAAG 2295

Qy 421 GACTAGTTCCTCATGTCACCAATGAGTTCTGACCTATCACTGCTTGTGTCTTAAGTCAAC 480
Db 2294 GACTAGTTCCTCATGTCACCAATGAGTTCTGACCTATCACTGCTTGTGTCTTAAGTCAAC 2235

Qy 481 CTGAAATAACAGTAACCTTCTTAATAGAACAGAAAATTTCTGGCATATAAAATTTGACCTGCT 540
Db 2234 CTGAAATAACAGTAACCTTCTTAATAGAACAGAAAATTTCTGGCATATAAAATTTGACCTGCT 2175

Qy 541 CATCTATACAGGTTACCCAGAACCTTAAGGAGATGTATTTTTCAGCTTAAACACTTGAAAT 600
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Db 2174 CATCTATACAAGTTTACCAGAACCTTAAGGAGATGTAATTTTCAGCTAAACACTGAGAAAT 2115  
Qy  
601 CAACTACTAAGTATGATCTGTCATGACGAATAATCTCAAAATATATGTGACAGAACTGTACA 660  
Db 2114 CAACTACTAAGTATGATCTGTCATGAGAAATCTCAAAATATATGTGACAGAACTGTACA 2055  
Qy 661 AGCTTTCTATCAGTTGCTTTTTCAGTCCCTGAAGCACAATGTGAGCGTCTTTTGTG 720  
Db 2054 AGCTTTCTATCAGTTGCTTTTTCAGTCCCTGAAGCACAATGTGAGCGTCTTTTGTG 1995  
Qy 721 CCCTGAACTGGAGACACTGGAGATGCTCTCTCCCTACCTTTCAATATAGATGACAAAC 780  
Db 1994 CCCTGAACTGGAGACACTGGAGATGCTCTCTCCCTACCTTTCAATATAGATGACAAAC 1935  
Qy 781 CTAAGGATAAAGACCTTGACAGGCACTTCTCTCGGATTCGGGCTGTACTTGAATGT 840  
Db 1934 CTAAGGATAAAGACCTTGACAGGCACTTCTCTCGGATTCGGGCTGTACTTGAATGT 1875  
Qy 841 TTGTTGTTTTTGTGGATGGTCTCTTTAAACACTTAAGGAAAGGAAAGAGAGCAGC 900  
Db 1874 TTGTTGTTTTTGTGGATGGTCTCTTTAAACACTTAAGGAAAGGAAAGAGAGCAGC 1815  
Qy 901 CTGGCCCTCTCATGATGTGAACCATCAAAAGGAGAGAAAGAGACAAACAGACCA 960  
Db 1814 CTGGCCCTCTCATGATGTGAACCATCAAAAGGAGAGAAAGAGACAAACAGACCA 1755  
Qy 961 ACGAAGAGTACCATACCGTACCTGAGAGATCTGATGAGCCAGTGTGTAACTTT 1020  
Db 1754 ACGAAGAGTACCATACCGTACCTGAGAGATCTGATGAGCCAGTGTGTAACTTT 1695  
Qy 1021 TGAAGACAGCTCAGGGGACAAAAT 1046  
Db 1694 TGAAGACAGCTCAGGGGACAAAAT 1669

RESULT 6

US-09-646-561-25  
; Sequence 25, Application US/09646561  
; GENERAL INFORMATION:  
; APPLICANT: Sim, Gek-Kee  
; APPLICANT: Yang, Shumin  
; APPLICANT: Sellins, Karen S.  
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC  
; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF  
; FILE REFERENCE: IM-1-C1-PCT  
; CURRENT APPLICATION NUMBER: US/09/646,561  
; CURRENT FILING DATE: 2000-09-19  
; PRIOR APPLICATION NUMBER: 60/078,765  
; PRIOR FILING DATE: 1998-03-19  
; PRIOR APPLICATION NUMBER: 09/062,597  
; PRIOR FILING DATE: 1998-04-17  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 25  
; LENGTH: 2830  
; TYPE: DNA  
; ORGANISM: Felis catus  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (179)..(1174)  
US-09-646-561-25

Query Match 96.4%; Score 1041.2; DB 29; Length 2830;  
Best Local Similarity 99.7%; Pred. No. 5.4e-287;  
Matches 1043; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
Qy 1 GTTTCTGTGTTCTCGGAAATGTCATGAGCTTATACATCTGGTCTCTGGAGCTGCAGT 60  
Db 117 GTTTCTGTGTTCTCGGAAATGTCATGAGCTTATACATCTGGTCTCTGGAGCTGCAGT 176  
Qy 61 GGATGGCAATTTGTGACAGCACTATGGAGTGTGAGTGTGAGTGTGATGTCCTTGTGATGCGCTCC 120  
Db 177 GGATGGCAATTTGTGACAGCACTATGGAGTGTGAGTGTGAGTGTGATGTCCTTGTGATGCGCTCC 236

Qy 121 TGCTCTGTGTTCTTCCATGAAGAGTCAAGCATATTTTCAACAAGACTGGAGAACTGC 180  
Db 237 TGCTCTGTGTTCTTCCATGAAGAGTCAAGCATATTTTCAACAAGACTGGAGAACTGC 296  
Qy 181 CATGCCATTTTACAAAATCTCTCAAAACATAAAGCTGGATGAGCTGGTAGTATTTTGGCAGG 240  
Db 297 CATGCCATTTTACAAAATCTCTCAAAACATAAAGCTGGATGAGCTGGTAGTATTTTGGCAGG 356  
Qy 241 ACCAGGATAAGCTGGTCTGTATGAGATATTCAGAGGCAAAAGAGAACCTTCAAAATGTTTC 300  
Db 357 ACCAGGATAAGCTGGTCTGTATGAGATATTCAGAGGCAAAAGAGAACCTTCAAAATGTTTC 416  
Qy 301 ATCTCAAAATATAAGGGCCGTCAAGCTTTTGACAAAGGACAACTGGACCTCGAGACTCCACA 360  
Db 417 ATCTCAAAATATAAGGGCCGTCAAGCTTTTGACAAAGGACAACTGGACCTCGAGACTCCACA 476  
Qy 361 ATGTTTCAGATCAAGGACAAAGGCGACATATCATCTGTTTCATTCATTTAAGAGGCGCCAAAG 420  
Db 477 ATGTTTCAGATCAAGGACAAAGGCGACATATCATCTGTTTCATTCATTTAAGAGGCGCCAAAG 536  
Qy 421 GACTAGTTCCCATGACCAAAATGAGTTCTGACCTATCAGTCTGCTTAACCTTCAGTCAAC 480  
Db 537 GACTAGTTCCCATGACCAAAATGAGTTCTGACCTATCAGTCTGCTTAACCTTCAGTCAAC 596  
Qy 481 CTGAAATATAACAGTAACTTTCTAATAGAACAGAAAATTTCTGGCATCATATAATTTGACCTGCT 540  
Db 597 CTGAAATATAACAGTAACTTTCTAATAGAACAGAAAATTTCTGGCATCATATAATTTGACCTGCT 656  
Qy 541 CATCTATACAGGTTTACCCAGAACCTTAAGGAGATGATATTTTCAGTCAACACTGAGAATT 600  
Db 657 CATCTATACAGGTTTACCCAGAACCTTAAGGAGATGATATTTTCAGTCAACACTGAGAATT 716  
Qy 601 CAACTACTAAGTATGATCTGTCATGAAGAAATCTCAAAATAATGTGACAGAACTGTGACA 660  
Db 717 CAACTACTAAGTATGATCTGTCATGAAGAAATCTCAAAATAATGTGACAGAACTGTGACA 776  
Qy 661 ACGTTTCTATCAGTTGCTTTTTCAGTCCCTGAAAGCACAATGTGAGCGTCTTTTGTG 720  
Db 777 ACGTTTCTATCAGTTGCTTTTTCAGTCCCTGAAAGCACAATGTGAGCGTCTTTTGTG 836  
Qy 721 CCCTGAACTGGAGACACTGGAGATGCTCTCCCTACCTTTCAATATAGATGACACAAC 780  
Db 837 CCCTGAACTGGAGACACTGGAGATGCTCTCCCTACCTTTCAATATAGATGACACAAC 896  
Qy 781 CTAAGGATAAAGACCTCTGAAACAGGCGCACTTCTCTGGAATTCGGCTGTACTTTGTAATGT 840  
Db 897 CTAAGGATAAAGACCTCTGAAACAGGCGCACTTCTCTGGAATTCGGCTGTACTTTGTAATGT 956  
Qy 841 TTGTTGTTTTTGTGGATGGTGTCTTTTAAACACTTAAGGAAAGGAAAGAGAGAGCAGC 900  
Db 957 TTGTTGTTTTTGTGGATGGTGTCTTTTAAACACTTAAGGAAAGGAAAGAGAGAGCAGC 1016  
Qy 901 CTGGCCCTCTCATGATGTGAACCATCAAAAGGAGAGAAAGAGACAAACAGACCA 960  
Db 1017 CTGGCCCTCTCATGATGTGAACCATCAAAAGGAGAGAAAGAGACAAACAGACCA 1076  
Qy 961 ACGAAGAGTACCATACCGTACCTGAGAGATCTGATGAAGCCAGTGTGTTAACTTT 1020  
Db 1077 ACGAAGAGTACCATACCGTACCTGAGAGATCTGATGAAGCCAGTGTGTTAACTTT 1136  
Qy 1021 TGAAGACAGCTCAGGGGACAAAAT 1046  
Db 1137 TGAAGACAGCTCAGGGGACAAAAT 1162

RESULT 7

US-09-646-561-27/c  
; Sequence 27, Application US/09646561  
; GENERAL INFORMATION:  
; APPLICANT: Sim, Gek-Kee  
; APPLICANT: Yang, Shumin  
; APPLICANT: Sellins, Karen S.

;; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC  
;; FILE OF INVENTION: ACID MOLECULES, AND USES THEREOF  
;; FILE REFERENCE: IM-1-C1-PCT  
;; CURRENT APPLICATION NUMBER: US/09/646,561  
;; CURRENT FILING DATE: 2000-09-19  
;; PRIOR APPLICATION NUMBER: 60/078,765  
;; PRIOR FILING DATE: 1998-03-19  
;; PRIOR APPLICATION NUMBER: 09/062,597  
;; PRIOR FILING DATE: 1998-04-17  
;; NUMBER OF SEQ ID NOS: 65  
;; SOFTWARE: PatentIn Ver. 2.0  
;; SEQ ID NO 27  
;; LENGTH: 2830  
;; TYPE: DNA  
;; ORGANISM: Felis catus  
US-09-646-561-27

Query Match 96.4%; Score 1041.2; DB 29; Length 2830;  
Best Local Similarity 99.7%; Pred. No. 5.4e-287;  
Matches 1043; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GTTCTGTGTTCTCTCGGAATGTCACTGAGCTTATACATCTGTCTCTGGGAGCTGCAGT 60  
DB 2714 GTTCTGTGTTCTCTCGGAATGTCACTGAGCTTATACATCTGTCTCTGGGAGCTGCAGT 2655

QY 61 GGATGGCATTGTGACAGCACTATGGGAGCTGAGTCACTCTCTTGTGATGGCCCTCC 120  
DB 2654 GGATGGCATTGTGACAGCACTATGGGAGCTGAGTCACTCTCTTGTGATGGCCCTCC 2595

QY 121 TGCTCTCTGTGTTCTTCCATGAAGTCAAGCATATTTCAACAGACTGGAGACTGC 180  
DB 2594 TGCTCTCTGTGTTCTTCCATGAAGTCAAGCATATTTCAACAGACTGGAGACTGC 2535

QY 181 CATGCCATTTTACAACTCTCAAAACATAAGCTGTGATGAGTGTGTTTGGCAGG 240  
DB 2534 CATGCCATTTTACAACTCTCAAAACATAAGCTGTGATGAGTGTGTTTGGCAGG 2475

QY 241 ACCAGGATAAGCTGTTTGTGTATGAGATATTCAGAGGCAAGAGAACCCCTCAAAATGTTTC 300  
DB 2474 ACCAGGATAAGCTGTTTGTGTATGAGATATTCAGAGGCAAGAGAACCCCTCAAAATGTTTC 2415

QY 301 ATCTCAAAATATAAGGCGGTACAAGCTTTGAAGGACAACTGGAACCTGAGACTCCACA 360  
DB 2414 ATCTCAAAATATAAGGCGGTACAAGCTTTGAAGGACAACTGGAACCTGAGACTCCACA 2355

QY 361 ATGTTCCAGATCAAGGACAGGACATATACATCTGTTTCAATTAAGGCGCCCAAG 420  
DB 2354 ATGTTCCAGATCAAGGACAGGACATATACATCTGTTTCAATTAAGGCGCCCAAG 2295

QY 421 GACTAGTTCCTCATGCAACCAATGAGTTCTGACCTATCATGCTGTTGCTAACTTCAGTCAAC 480  
DB 2294 GACTAGTTCCTCATGCAACCAATGAGTTCTGACCTATCATGCTGTTGCTAACTTCAGTCAAC 2235

QY 481 CTGAAATAACAGTAACTTCTAATAGAACAGAAATTTCTGGCATCAPAAATTTGACCTGCT 540  
DB 2234 CTGAAATAACAGTAACTTCTAATAGAACAGAAATTTCTGGCATCAPAAATTTGACCTGCT 2175

QY 541 CATCTATACAGGTTACCCAGACCTAAGAGAGTGTATTTTCAGCTTAAACACTGGAATTT 600  
DB 2174 CATCTATACAGGTTACCCAGACCTAAGAGAGTGTATTTTCAGCTTAAACACTGGAATTT 2115

QY 601 CAACTACTAAGTATGATGATCTGTATGAAGAAATCTCAAAATATATGTGACAGAACTGTACA 660  
DB 2114 CAACTACTAAGTATGATGATCTGTATGAAGAAATCTCAAAATATATGTGACAGAACTGTACA 2055

QY 661 AGTTTTCTATCAGTTGCTTTTTCAGTCCCTGAAGCACAATGTGAGCGTCTTTTGTG 720  
DB 2054 AGTTTTCTATCAGTTGCTTTTTCAGTCCCTGAAGCACAATGTGAGCGTCTTTTGTG 1995

QY 721 CCTTGAACCTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTCAATATAGATGACACAC 780  
DB 1994 CCTTGAACCTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTCAATATAGATGACACAC 1935

QY 781 CTAAGGATAAAGACCCTGAACCAAGGCCACTTCTCTGGATTGGCGTGTACTTGTATGT 840  
DB 1934 CTAAGGATAAAGACCCTGAACCAAGGCCACTTCTCTGGATTGGCGTGTACTTGTATGT 1875

QY 841 TTGTTGTTTTTTTGTGGATGGTGTCTTTTAAACACTAAGGAAAAGAGAAAGAGCAGC 900  
DB 1874 TTGTTGTTTTTTTGTGGATGGTGTCTTTTAAACACTAAGGAAAAGAGAAAGAGCAGC 1815

QY 901 CTGGCCCTCTCATGAATGTGAACCATCAAAAGGAGAGAAAAGAGAGCAACACACACCA 960  
DB 1814 CTGGCCCTCTCATGAATGTGAACCATCAAAAGGAGAGAAAAGAGAGCAACACACCA 1755

QY 961 ACGAAAAGATACCATACACGCTACCTGAGAGATCTGATGAAGCCCTGAGTGTGTTAAATTT 1020  
DB 1754 ACGAAAAGATACCATACACGCTACCTGAGAGATCTGATGAAGCCCTGAGTGTGTTAAATTT 1695

QY 1021 TGAAGACAGCTCTCAGGGGACAAAAT 1046  
DB 1694 TGAAGACAGCTCTCAGGGGACAAAAT 1669

RESULT 8  
US-10-790-396-25  
;; Sequence 25, Application US/10790396  
;; GENERAL INFORMATION:  
;; APPLICANT: Yang, Shumin  
;; APPLICANT: Yang, Shumin  
;; APPLICANT: Selling, Karen S.  
;; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC  
;; FILE OF INVENTION: ACID MOLECULES, AND USES THEREOF  
;; FILE REFERENCE: IM-1-C1-PCT  
;; CURRENT APPLICATION NUMBER: US/10/790,396  
;; CURRENT FILING DATE: 2004-03-01  
;; PRIOR APPLICATION NUMBER: US/09/646,561  
;; PRIOR FILING DATE: 2000-09-19  
;; PRIOR APPLICATION NUMBER: 60/078,765  
;; PRIOR FILING DATE: 1998-03-19  
;; PRIOR APPLICATION NUMBER: 09/062,597  
;; PRIOR FILING DATE: 1998-04-17  
;; NUMBER OF SEQ ID NOS: 65  
;; SOFTWARE: PatentIn Ver. 2.0  
;; SEQ ID NO 25  
;; LENGTH: 2830  
;; TYPE: DNA  
;; ORGANISM: Felis catus  
;; FEATURE:  
;; NAME/KEY: CDS  
;; LOCATION: (179)..(1174)  
US-10-790-396-25

Query Match 96.4%; Score 1041.2; DB 62; Length 2830;  
Best Local Similarity 99.7%; Pred. No. 5.4e-287;  
Matches 1043; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GTTCTGTGTTCTCTCGGAATGTCACTGAGCTTATACATCTGTCTCTGGGAGCTGCAGT 60  
DB 117 GTTCTGTGTTCTCTCGGAATGTCACTGAGCTTATACATCTGTCTCTGGGAGCTGCAGT 176

QY 61 GGATGGCATTGTGACAGCACTATGGGAGCTGAGTCACTCTCTCTGTGATGGCCCTCC 120  
DB 177 GGATGGCATTGTGACAGCACTATGGGAGCTGAGTCACTCTCTCTGTGATGGCCCTCC 236

QY 121 TGCTCTCTGTGTTTCTTCCATGAAGAGTCAAGCATATTTCAACAGACTGGAGAACTGC 180  
DB 237 TGCTCTCTGTGTTTCTTCCATGAAGAGTCAAGCATATTTCAACAGACTGGAGAACTGC 296

QY 181 CATGCCATTTTACAACTCTCAAAACATAAGCTGTGATGAGTGTGTTTGGCAGG 240  
DB 297 CATGCCATTTTACAACTCTCAAAACATAAGCTGTGATGAGTGTGTTTGGCAGG 356

QY 241 ACCAGGATAAGCTGTTTCTGTATGAGATATTCAGAGGCAAGAGAACCCCTCAAAATGTTTC 300  
DB 357 ACCAGGATAAGCTGTTTCTGTATGAGATATTCAGAGGCAAGAGAACCCCTCAAAATGTTTC 416



QY 301 ATCTCAATATAAGGCGCTAAGCTTTGACAAGCAACTGGACCCCTGAGACTCCACA 360  
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Db 417 ATCTCAATATAAGGCGCTAAGCTTTGACAAGCAACTGGACCCCTGAGACTCCACA 476  
| | | | |  
QY 361 ATGTTTCAGATCAAGGACAGGCGACATATCACTGTTTCATTATATAAAGGCGCCAAAG 420  
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| | | | |  
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| | | | |  
Db 537 GACTAGTTCCTATGACACCAAAATGAGTTCTGACCTATCACTGTTTCATTATATAAAGGCGCCAAAG 596  
| | | | |  
QY 481 CTGAATAACAGTAACCTTCTAATAGAACAGAAAATCTGGCATCATAAATTTGACCTGCT 540  
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Db 597 CTGAATAACAGTAACCTTCTAATAGAACAGAAAATCTGGCATCATAAATTTGACCTGCT 656  
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QY 541 CATCTATACAAAGTTTACCAGAACCTTAAGGAGATGTAATTTTCAGCTTAAACACTGA3AATT 600  
| | | | |  
Db 657 CATCTATACAAAGTTTACCAGAACCTTAAGGAGATGTAATTTTCAGCTTAAACACTGA3AATT 716  
| | | | |  
QY 601 CAACTAAGTATGATGATGTCATGAAGAAAATCTCAAAATTAATGTGACAGAACTGTACA 660  
| | | | |  
Db 717 CAACTAAGTATGATGATGTCATGAAGAAAATCTCAAAATTAATGTGACAGAACTGTACA 776  
| | | | |  
QY 661 AGTTTCTATCAGCTTGCCTTTTTCAGTCCCTGAAGCACACAATGTGACCGTCTTTTGTG 720  
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Db 777 AGTTTCTATCAGCTTGCCTTTTTCAGTCCCTGAAGCACACAATGTGACCGTCTTTTGTG 836  
| | | | |  
QY 721 CCTGAAACTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTCAATATAGATGCACAAC 780  
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Db 837 CCTGAAACTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTCAATATAGATGCACAAC 896  
| | | | |  
QY 781 CTAAGGATAAAGACCTGAAAGGCCACTTCTCTGGAATGCGGCTGTACTTGAATGT 840  
| | | | |  
Db 897 CTAAGGATAAAGACCTGAAAGGCCACTTCTCTGGAATGCGGCTGTACTTGAATGT 956  
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QY 841 TTGTTGTTTGTGGATGGTGTCTCTTTAAACACTAAGGAAAAGGAAGAGAGCAGC 900  
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| | | | |  
QY 901 CTGGCCCTCTCATGAAATGTGAACCATCAAAAGGAGAGAAAAGAGAGCAACAGACCA 960  
| | | | |  
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| | | | |  
QY 961 ACAGAAAGATACATACACAGTACCTGAGAGATCTGATGAAGCCGAGTGTGTTAACTTT 1020  
| | | | |  
Db 1077 ACAGAAAGATACATACACAGTACCTGAGAGATCTGATGAAGCCGAGTGTGTTAACTTT 1136  
| | | | |  
QY 1021 TGAAGACAGCTCAGGGGACAAAAT 1046  
| | | | |  
Db 1137 TGAAGACAGCTCAGGGGACAAAAGT 1162  
| | | | |

RESULT 9  
US-10-790-396-27/c  
; Sequence 27, Application US/10790396  
; GENERAL INFORMATION:  
; APPLICANT: Sim, Gek-Kee  
; APPLICANT: Yang, Shumin  
; APPLICANT: Sellins, Karen S.  
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC  
; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF  
; FILE REFERENCE: IM-1-CI-PCT  
; CURRENT APPLICATION NUMBER: US/10/790,396  
; CURRENT FILING DATE: 2004-03-01  
; PRIOR APPLICATION NUMBER: US/09/646,561  
; PRIOR FILING DATE: 2000-09-19  
; PRIOR APPLICATION NUMBER: 60/078,765  
; PRIOR FILING DATE: 1998-03-19  
; PRIOR APPLICATION NUMBER: 09/062,597  
; PRIOR FILING DATE: 1998-04-17  
; NUMBER OF SEQ ID NOS: 65

; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 27  
; LENGTH: 2830  
; TYPE: DNA  
; ORGANISM: Felis catus  
US-10-790-396-27  
  
Query Match 96.4%; Score 1041.2; DB 62; Length 2830;  
Best Local Similarity 99.7%; Pred. No. 5.4e-287; Mismatches 3; Indels 0; Gaps 0;  
Matches 1043; Conservative 0;  
  
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Db 2714 GTTCTGTGTTCCCTCGGGAATGTCACTGAGCTTATACATCTGGTCTCTCTGGAGCTGCAGT 2655  
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QY 61 GGATGGGCATTTGTGACAGCACTATGGGACGTAGTCACACTCTCTCTGTGATGCCCTCC 120  
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Db 2654 GGATGGGCATTTGTGACAGCACTATGGGACGTAGTCACACTCTCTCTGTGATGCCCTCC 2595  
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QY 121 TGCTCTCTGTGTTTCTTCCATGAAGCTCAAGCATATTTCAACAAGACTGGAGAACTGC 180  
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Db 2594 TGCTCTCTGTGTTTCTTCCATGAAGCTCAAGCATATTTCAACAAGACTGGAGAACTGC 2535  
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QY 181 CATGCCATTTTACAAACTCTCAAAACATAAAGCCTGGATGAGCTGGTAGTATTTTGGCAGG 240  
| | | | |  
Db 2534 CATGCCATTTTACAAACTCTCAAAACATAAAGCCTGGATGAGCTGGTAGTATTTTGGCAGG 2475  
| | | | |  
QY 241 ACCAGGATAAGCTGGTCTCTGTATGAGATATTCAGAGGCAAGAGAACCTCAAAATGTTTC 300  
| | | | |  
Db 2474 ACCAGGATAAGCTGGTCTCTGTATGAGATATTCAGAGGCAAGAGAACCTCAAAATGTTTC 2415  
| | | | |  
QY 301 ATCTCAAAATATAAGGCGCTTCAAGCTTTTGACAAGGACAACTGGACCCCTGAGACTCCACA 360  
| | | | |  
Db 2414 ATCTCAAAATATAAGGCGCTTCAAGCTTTTGACAAGGACAACTGGACCCCTGAGACTCCACA 2355  
| | | | |  
QY 361 ATGTTTCAGATCAAGGACAAAGGCCACATATCACTGTTTTCATTCAATTTATAAAGGCGCCAAAG 420  
| | | | |  
Db 2354 ATGTTTCAGATCAAGGACAAAGGCCACATATCACTGTTTTCATTCAATTTATAAAGGCGCCAAAG 2295  
| | | | |  
QY 421 GACTAGTTCCTATGACACCAAAATGAGTTCTGACCTATCACTGCTTCTGCTTAACCTTCACTCAAC 480  
| | | | |  
Db 2294 GACTAGTTCCTATGACACCAAAATGAGTTCTGACCTATCACTGCTTCTGCTTAACCTTCACTCAAC 2235  
| | | | |  
QY 481 CTGAAATAACAGTAACTTTCTAATAGAACAGAAAATTTCTGGCATCATAAATTTGACCTGCT 540  
| | | | |  
Db 2234 CTGAAATAACAGTAACTTTCTAATAGAACAGAAAATTTCTGGCATCATAAATTTGACCTGCT 2175  
| | | | |  
QY 541 CATCTATACAAAGTTTACCAGAACCTTAAGGAGATGTAATTTTTCAGCTTAAACACTGAGAATT 600  
| | | | |  
Db 2174 CATCTATACAAAGTTTACCAGAACCTTAAGGAGATGTAATTTTTCAGCTTAAACACTGAGAATT 2115  
| | | | |  
QY 601 CAACTACTAAGTATGATGATCTGTCATGAAGAAATCTCAAAATAATGTGACAGAACTGTACA 660  
| | | | |  
Db 2114 CAACTACTAAGTATGATGATCTGTCATGAAGAAATCTCAAAATAATGTGACAGAACTGTACA 2055  
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QY 661 ACGTTTCTATCAGCTTGCCTTTTTCAGTCCCTGAAAGCACACAATGTGAGCGCTCTTTTGTG 720  
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Db 2054 ACGTTTCTATCAGCTTGCCTTTTTCAGTCCCTGAAAGCACACAATGTGAGCGCTCTTTTGTG 1995  
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QY 721 CCCTGAAACTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTTCAATATAGATGCACAAC 780  
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Db 1994 CCCTGAAACTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTTCAATATAGATGCACAAC 1935  
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QY 781 CTAAGGATAAAGACCTCTGAACAGGCCACTTCTCTGGATTCGCGCTGTACTTGAATGT 840  
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Db 1934 CTAAGGATAAAGACCTCTGAACAGGCCACTTCTCTGGATTCGCGCTGTACTTGAATGT 1875  
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QY 841 TTGTTGTTTGTGGATGGTGTCTCTTTAAACACTAAGGAAAAGGAAGAGAGCAGC 900  
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QY 901 CTGGCCCTCTCATGAAATGTGAACCATCAAAAGGAGAGAAAAGAGAGCAACAGACCA 960  
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CITY: Fort Collins  
STATE: Colorado  
COUNTRY: USA  
ZIP: 80525  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: Windows 95  
SOFTWARE: WordPerfect for Windows, Version 7.0  
CURRENT APPLICATION DATA:  
FILING DATE: 17-APR-1998  
CLASSIFICATION: 514  
ATTORNEY/AGENT INFORMATION:  
NAME: Verser, Carol Talkington  
REGISTRATION NUMBER: 37,459  
REFERENCE/DOCKET NUMBER: IM-1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 970/493-7272  
TELEFAX: 970/484-9505  
INFORMATION FOR SEQ ID NO: 29:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 996 nucleotides  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
US-09-062-597A-29

Query Match 90.7%; Score 979.2; DB 16; Length 996;  
Best Local Similarity 99.7%; Pred. No. 2e-269;  
Matches 981; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 63 ATGGGCAATTTGGACAGCACTATGGGACTGAGTCACACTCTCTCTGTGATGGCCCTCTCG 122  
DB ATGGGCAATTTGGACAGCACTATGGGACTGAGTCACACTCTCTCTGTGATGGCCCTCTCG 937  
QY 123 CTCTCTGGTGTCTTCCATGAAGTCAAGCATATTTCAACAAGACTGGAGACTGCCA 182  
DB CTCTCTGGTGTCTTCCATGAAGTCAAGCATATTTCAACAAGACTGGAGACTGCCA 877  
QY 183 TGCCATTTTACAACTCTCAAAACATATTAAGCCTGGATGAGTGTGTATTTTGGCAGGAC 242  
DB TGCCATTTTACAACTCTCAAAACATATTAAGCCTGGATGAGTGTGTATTTTGGCAGGAC 817  
QY 243 CAGGATAAGCTGTTCTGTATGAGATATTCAGAGGCAAGAGAAACCTCAAAATGTTTCA 302  
DB CAGGATAAGCTGTTCTGTATGAGATATTCAGAGGCAAGAGAAACCTCAAAATGTTTCA 757  
QY 303 CTCATATATAAGGGCCGTACAGCTTTGACAAGGCAACTGGACCTGAGACTCCACAAT 362  
DB CTCATATATAAGGGCCGTACAGCTTTGACAAGGCAACTGGACCTGAGACTCCACAAT 697  
QY 363 GTTCAGATCAAGGACCAAGGCGACATATCACTGTGTTTCATTTCATTATAAAGGGCCCAAGGA 422  
DB GTTCAGATCAAGGACCAAGGCGACATATCACTGTGTTTCATTTCATTATAAAGGGCCCAAGGA 637  
QY 423 CTAGTTCCTCATGACCAATAGATTTCTGACCTATCATAGTGTGCTTCACTTCAGTCAACCT 482  
DB CTAGTTCCTCATGACCAATAGATTTCTGACCTATCATAGTGTGCTTCACTTCAGTCAACCT 577  
QY 483 GAAATAACAGTAACCTCTTAATGAACAGAAATTTCTGGGCATCATATAATTTGACCTGCTCA 542  
DB GAAATAACAGTAACCTCTTAATGAACAGAAATTTCTGGGCATCATATAATTTGACCTGCTCA 517  
QY 543 TCTATACAAGGTTTACCAGAACCTAAGGAGATGTATTTTTCAGTCAAACTGAGATTTCA 602  
DB TCTATACAAGGTTTACCAGAACCTAAGGAGATGTATTTTTCAGTCAAACTGAGATTTCA 457  
QY 603 ACTACTAAGTATGATCTGTCTATGAAGAAATCTCAAAATTAATGTGACAGAACTGTACAAC 662  
DB ACTACTAAGTATGATCTGTCTATGAAGAAATCTCAAAATTAATGTGACAGAACTGTACAAC 397

QY 663 GTTCTTATCAGCTTGCCTTTTTCAGTCCTGTAAGCACACAATGTGAGCGTCTTTTGTGCG 722  
DB GTTCTTATCAGCTTGCCTTTTTCAGTCCTGTAAGCACACAATGTGAGCGTCTTTTGTGCG 337  
QY 723 CTGAAACTGGAGACACTGCGATGCTCTCTCCCTACCTTTCAATATAGATGCAACAACCT 782  
DB CTGAAACTGGAGACACTGCGATGCTCTCTCCCTACCTTTCAATATAGATGCAACAACCT 277  
QY 783 AAGGATAAAGACCTTGAACAAGGCCACTTCTCTGGATTTGGGCTGTACTTGTATGTTT 842  
DB AAGGATAAAGACCTTGAACAAGGCCACTTCTCTGGATTTGGGCTGTACTTGTATGTTT 217  
QY 843 GTTGTGTTTTTGGGATGCTGTCCTTTTAAACACTAAGGAAAGGAAAGAGAGAGCGCT 902  
DB GTTGTGTTTTTGGGATGCTGTCCTTTTAAACACTAAGGAAAGGAAAGAGAGAGCGCT 157  
QY 903 GGCCCTCTCATGAATGTGAAACCATCAAAAGGGAGAGAAAAGAGCAAAACAGACCAAC 962  
DB GGCCCTCTCATGAATGTGAAACCATCAAAAGGGAGAGAAAAGAGCAAAACAGACCAAC 97  
QY 963 GAAAGACTACCATACACGCTACCTGAGAGATCTGATGAAGCCAGTGTGTTAACAATTTG 1022  
DB GAAAGACTACCATACACGCTACCTGAGAGATCTGATGAAGCCAGTGTGTTAACAATTTG 37  
QY 1023 AAGACAGCTCTCAGGGGACAAAAAT 1046  
DB AAGACAGCTCTCAGGGGACAAAAAGT 13

RESULT 12  
US-09-646-561-28  
Sequence 28, Application US/09646561  
GENERAL INFORMATION:  
APPLICANT: Sim, Gek-Ke  
APPLICANT: Yang, Shumin  
APPLICANT: Sellins, Karen S.  
TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC  
ACID MOLECULES, AND USES THEREOF  
FILE REFERENCE: IM-1-CI-PCT  
CURRENT APPLICATION NUMBER: US/09/646,561  
CURRENT FILING DATE: 2000-09-19  
PRIOR APPLICATION NUMBER: 60/078,765  
PRIOR FILING DATE: 1998-03-19  
PRIOR APPLICATION NUMBER: 09/062,597  
PRIOR FILING DATE: 1998-04-17  
NUMBER OF SEQ ID NOS: 65  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 28  
LENGTH: 996  
TYPE: DNA  
ORGANISM: Felis catus  
US-09-646-561-28

Query Match 90.7%; Score 979.2; DB 29; Length 996;  
Best Local Similarity 99.7%; Pred. No. 2e-269;  
Matches 981; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 63 ATGGGCAATTTGGACAGCACTATGGGACTGAGTCACACTCTCTCTGTGATGGCCCTCTCG 122  
DB ATGGGCAATTTGGACAGCACTATGGGACTGAGTCACACTCTCTCTGTGATGGCCCTCTCG 60  
QY 123 CTCTCTGGTGTCTTCCATGAAGTCAAGCATATTTCAACAAGACTGGAGACTGCCA 182  
DB CTCTCTGGTGTCTTCCATGAAGTCAAGCATATTTCAACAAGACTGGAGACTGCCA 120  
QY 183 TGCCATTTTACAACTCTCAAAACATATAAGCCTGGATGAGTGTGTATTTTGGCAGGAC 242  
DB TGCCATTTTACAACTCTCAAAACATATAAGCCTGGATGAGTGTGTATTTTGGCAGGAC 180  
QY 243 CAGGATAAGCTGTTCTGTATGAGATATTCAGAGGCAAGAGAAACCTCAAAATGTTTCA 302  
DB CAGGATAAGCTGTTCTGTATGAGATATTCAGAGGCAAGAGAAACCTCAAAATGTTTCA 240

303 CTCAATATTAAGGGCGGTACAGCTTTGACAAGGACAACTGGACCCCTGAGACTGCCAAT 362  
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423 CTAGTTCCCATGACCAAAATAGTCTTGACCTATCACTAGTGTGCTTAACCTCAGTCAACCT 482  
Db CTAGTTCCCATGACCAAAATAGTCTTGACCTATCACTAGTGTGCTTAACCTCAGTCAACCT 420  
483 GAAATACAGTAACTCTTAATAGAACAGAAAATCTGGGATCATATAATTTGACCTGCTCA 542  
Db GAAATACAGTAACTCTTAATAGAACAGAAAATCTGGGATCATATAATTTGACCTGCTCA 480  
543 TCTATACAGGTTTACCCAGAACCTTAAGGAGATGTAATTTTCAGCTAAACACTGAGATTCA 602  
Db TCTATACAGGTTTACCCAGAACCTTAAGGAGATGTAATTTTCAGCTAAACACTGAGATTCA 540  
603 ACTACTAAGTATGATATCTGTCAAGAGAAATCTCAAAATTAATGTGACAGAACTGTACAAC 662  
Db ACTACTAAGTATGATATCTGTCAAGAGAAATCTCAAAATTAATGTGACAGAACTGTACAAC 600  
663 GTTTCATCAGCTTGCTTTTTCAGTCCCTGGAAGCACAAATGTGAGCGTCTTTTGTGCC 722  
Db GTTTCATCAGCTTGCTTTTTCAGTCCCTGGAAGCACAAATGTGAGCGTCTTTTGTGCC 660  
723 CTGAAGCTGGAGACCTGGAGATGCTCTCCCTACCTTTCAATATAGATGCACAACT 782  
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1023 AAGACAGCTCAGGGGACAAAAAT 1046  
Db AAGACAGCTCAGGGGACAAAAAGT 984

RESULT 13  
US-09-646-561-29/c  
; Sequence 29, Application US/09646561  
; GENERAL INFORMATION:  
; APPLICANT: Sim, Gek-Ke  
; APPLICANT: Yang, Shumin  
; APPLICANT: Sellins, Karen S.  
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC  
; FILE REFERENCE: IM-1-C1-PCT  
; CURRENT APPLICATION NUMBER: US/09/646,561  
; PRIOR FILING DATE: 2000-09-19  
; PRIOR APPLICATION NUMBER: 60/078,765  
; PRIOR FILING DATE: 1998-03-19  
; PRIOR APPLICATION NUMBER: 09/062,597  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 29  
; LENGTH: 996

; TYPE: DNA  
; ORGANISM: Felis catus  
US-09-646-561-29

Query Match 90.7%; Score 979.2; DB 29; Length 996;  
Best Local Similarity 99.7%; Pred. No. 28-269; Indels 0; Gaps 0;  
Matches 981; Conservative 0; Mismatches 3;

63 ATGGGCAATTTGTGACAGCACTATGGGACTGAGTCACTCTCTCTGTGATGGCCCTCCTG 122  
Db ATGGGCAATTTGTGACAGCACTATGGGACTGAGTCACTCTCTCTGTGATGGCCCTCCTG 937  
123 CTCTCTGTGTTTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGCCA 182  
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183 TGGCAATTTTACAAATCTCTCAAAACATNAGCCCTGGATGAGCTGGTAGTATTTTGGCAGGAC 242  
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243 CAGGATAAGCTGGTTCTGTATGAGATATTCAGAGGCAAAAGAGAACCTCATAAATGTTTCA 302  
Db CAGGATAAGCTGGTTCTGTATGAGATATTCAGAGGCAAAAGAGAACCTCATAAATGTTTCA 757  
303 CTCAAAATATAAGGGCCGTACAAGCTTTGACAAAGGACAACTGGACCCCTGAGACTCCAAT 362  
Db CTCAAAATATAAGGGCCGTACAAGCTTTGACAAAGGACAACTGGACCCCTGAGACTCCAAT 697  
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423 CTAGTTTCCCATGCACCAAAATGAGTTCTGACCTATCACTGCTTCTGCTTAACTTCACTCAACCT 482  
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Db GTTTCATCAGCTTGCTTTTTCAGTCCCTGAAAGCACACAATGTGAGCGTCTTTTGTGCC 337  
723 CTGAAACTGGAGACACTGGAGATGCTCTCCCTACCTTTCAATATAGATGCACAACT 782  
Db CTGAAACTGGAGACACTGGAGATGCTCTCCCTACCTTTCAATATAGATGCACAACT 277  
783 AAGGATAAAGACCTTGAACAGGCGCACTTCTCTGATTTGGCGCTGTACTTGTAAATGTTT 842  
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843 GTTGTGTTTTTGGGATGGTGTCTTTTAAACACTAAGGAAAGGAAGAACGAGCGCT 902  
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903 GGGCCCTCTCATGAATGTGAACCATCAAAAGGGAGAGAAAAGAGGACAAACAGACCAAC 962  
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[illegible]

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Db ||||| 756 CTCAAATATATAAGGGCGGTACAAAGCTTTGACAAAGCAAACTGGACCTCTGAGACTCCACAAT 697  
Qy ||||| 363 GTTCAGATCAAGGACAAAGGCAATATCACTGTTTCATTTCATTATAAAGGGCCCAAGGA 422  
Db ||||| 696 GTTCAGATCAAGGACAAAGGCAATATCACTGTTTCATTTCATTATAAAGGGCCCAAGGA 637  
Qy ||||| 423 CTAGTTCCTCATGACCAATGAGTTCTGACCTATCAGTGTCTGCTAACTTCAGTCAACCT 482  
Db ||||| 636 CTAGTTCCTCATGACCAATGAGTTCTGACCTATCAGTGTCTGCTAACTTCAGTCAACCT 577  
Qy ||||| 483 GAAATAACAGTAATCTTAATAGAACAGAAAATTTGGCATCATATAATTTGACCTGCTCA 542  
Db ||||| 576 GAAATAACAGTAATCTTAATAGAACAGAAAATTTGGCATCATATAATTTGACCTGCTCA 517  
Qy ||||| 543 TCTATACAAAGGTTACCCAGAACCTAAGGAGATGTATTTTCAGCTAAACACACTGAGAAATCA 602  
Db ||||| 516 TCTATACAAAGGTTACCCAGAACCTAAGGAGATGTATTTTCAGCTAAACACACTGAGAAATCA 457  
Qy ||||| 603 ACTACTAAGTATGATCTGTCATGAAGAAATCTCAAAATAATGTGACAGAACTGTGTAACAAC 662  
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Qy ||||| 663 GTTTCATACAGCTTGCTCTTTTCAGTCCCTGAGACACAAATGTGAGCGCTCTTTGTGCGC 722  
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Db ||||| 336 CTGAAACTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTCAATATAGATGACAACT 277  
Qy ||||| 783 AAGGATAAAGACCTGAAACAGGCCACTTCTCTGATTTGCGGCTGCTACTGTGTAATGTTT 842  
Db ||||| 276 AAGGATAAAGACCTGAAACAGGCCACTTCTCTGATTTGCGGCTGCTACTGTGTAATGTTT 217  
Qy ||||| 843 GTTGTGTTTTTGTGGGATGGTCTCTTTTAAACACTAAGGAAAGGAAGAGCAGCGCT 902  
Db ||||| 216 GTTGTGTTTTTGTGGGATGGTCTCTTTTAAACACTAAGGAAAGGAAGAGCAGCGCT 157  
Qy ||||| 903 GGCCCTCTCATGAATGTGAAACCATCAAAAGGGAGAGAAAGAGAGCAAAACAGACCAAC 962  
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Qy ||||| 1023 AAGACAGCCTCAGGGGACAAAT 1046  
Db ||||| 36 AAGACAGCCTCAGGGGACAAAGT 13

Search completed: August 20, 2005, 11:42:15  
Job time : 18716 secs

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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: August 20, 2005, 01:00:27 ; Search time 1823 Seconds  
(without alignments)  
7792.550 Million cell updates/sec

Title: US-09-303-510-5  
Perfect score: 1080  
Sequence: 1 gttctgtgtctctcgggaa.....tggcttgctgctgacaat 1080

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 23759627 seqs, 657677716 residues

Total number of hits satisfying chosen parameters: 47539254

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Pending Patents\_NA\_New.\*

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- 3: /cgn2\_6/ptodata/1/pna/US06\_NEW\_COMB.seq.\*
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- 5: /cgn2\_6/ptodata/1/pna/US08\_NEW\_COMB.seq.\*
- 6: /cgn2\_6/ptodata/1/pna/US09\_NEW\_COMB.seq.\*
- 7: /cgn2\_6/ptodata/1/pna/US09\_NEW\_COMB.seq.\*
- 8: /cgn2\_6/ptodata/1/pna/US09\_NEW\_COMB.seq.\*
- 9: /cgn2\_6/ptodata/1/pna/US10\_NEW\_COMB.seq.\*
- 10: /cgn2\_6/ptodata/1/pna/US10\_NEW\_COMB.seq10.\*
- 11: /cgn2\_6/ptodata/1/pna/US10\_NEW\_COMB.seq2.\*
- 12: /cgn2\_6/ptodata/1/pna/US10\_NEW\_COMB.seq3.\*
- 13: /cgn2\_6/ptodata/1/pna/US10\_NEW\_COMB.seq4.\*
- 14: /cgn2\_6/ptodata/1/pna/US10\_NEW\_COMB.seq5.\*
- 15: /cgn2\_6/ptodata/1/pna/US10\_NEW\_COMB.seq6.\*
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- 19: /cgn2\_6/ptodata/1/pna/US11\_NEW\_COMB.seq.\*
- 20: /cgn2\_6/ptodata/1/pna/US11\_NEW\_COMB.seq2.\*
- 21: /cgn2\_6/ptodata/1/pna/US11\_NEW\_COMB.seq3.\*
- 22: /cgn2\_6/ptodata/1/pna/US11\_NEW\_COMB.seq4.\*
- 23: /cgn2\_6/ptodata/1/pna/US11\_NEW\_COMB.seq5.\*
- 24: /cgn2\_6/ptodata/1/pna/US11\_NEW\_COMB.seq6.\*
- 25: /cgn2\_6/ptodata/1/pna/US60\_NEW\_COMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	ID	Description
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2	612.4	56.7	994	23	US-11-170-797-13
3	582.2	53.9	1795	1	PCT-US05-00517-3531
4	580.6	53.8	1424	20	US-11-027-053-3
5	580.6	53.8	1600	14	US-10-940-774A-5261
6	580.6	53.8	1926	9	US-10-302-689A-14809
7	580.6	53.8	2717	23	US-11-041-164A-33
8	580.6	53.8	2794	1	PCT-US05-18533-16
9	580.6	53.8	2794	1	PCT-US05-18790-54
10	580.6	53.8	2794	3	US-11-137-807-16
11	533.2	49.4	1830	29	US-10-302-689A-57885
12	533.2	49.4	2781	1	PCT-US05-18790-56
13	528.2	48.9	972	23	US-11-170-797-2
14	429.6	39.8	1056	12	US-10-960-855-17
15	351.4	32.5	754	25	US-60-680-544-17478
16	351.4	32.5	754	25	US-60-680-473-17478
17	329.6	30.5	930	23	US-11-170-797-9
18	295.2	27.3	942	23	US-11-136-527-2551
19	292	27.0	576	1	PCT-US05-00517-698
20	234.6	21.7	46118	14	US-10-940-774A-17003
21	160	14.8	1001	10	US-10-301-480C-317760
22	160	14.8	1001	16	US-10-301-480A-317760
23	160	14.8	1001	18	US-10-301-480B-317760
24	128.4	11.9	600	23	US-11-136-527-6647
25	57.4	5.3	601	14	US-10-940-774A-183467
26	48.4	4.5	601	14	US-10-940-774A-183455
27	41.2	3.8	46	23	US-11-041-164A-9
28	41	3.8	662	8	US-09-474-435A-141149
29	41	3.8	1563	7	US-09-474-435A-4765
30	40.8	3.8	492	7	US-09-925-065A-589942
31	39.8	3.7	563	7	US-09-925-065A-416395
32	39.8	3.7	575	10	US-10-301-480C-858068
33	39.8	3.7	575	16	US-10-301-480A-858068
34	39.8	3.7	575	17	US-10-301-480-481999
35	39.8	3.7	575	17	US-10-301-480-1095408
36	39.8	3.7	575	18	US-10-301-480B-858068
37	39.8	3.7	981	25	US-60-669-241-2781
38	38.4	3.6	608	10	US-10-301-480C-932624
39	38.4	3.6	608	16	US-10-301-480A-932624
40	38.4	3.6	608	17	US-10-301-480-556555
41	38.4	3.6	608	17	US-10-301-480-1169964
42	38.4	3.6	608	18	US-10-301-480B-932624
43	38.4	3.6	1478	23	US-11-136-527-1540
44	38.2	3.5	353	20	US-11-026-159-194
45	38	3.5	566	10	US-10-301-480C-439615

9	580.6	53.8	2794	1	PCT-US05-18790-54	Sequence 54, Appl
10	580.6	53.8	2794	3	US-11-137-807-16	Sequence 16, Appl
11	533.2	49.4	1830	29	US-10-302-689A-57885	Sequence 17885, A
12	533.2	49.4	2781	1	PCT-US05-18790-56	Sequence 56, Appl
13	528.2	48.9	972	23	US-11-170-797-2	Sequence 2, Appl
14	429.6	39.8	1056	12	US-10-960-855-17	Sequence 17, Appl
15	351.4	32.5	754	25	US-60-680-544-17478	Sequence 17478, A
16	351.4	32.5	754	25	US-60-680-473-17478	Sequence 17478, A
17	329.6	30.5	930	23	US-11-170-797-9	Sequence 9, Appl
18	295.2	27.3	942	23	US-11-136-527-2551	Sequence 2551, Ap
19	292	27.0	576	1	PCT-US05-00517-698	Sequence 698, App
20	234.6	21.7	46118	14	US-10-940-774A-17003	Sequence 17003, A
21	160	14.8	1001	10	US-10-301-480C-317760	Sequence 317760, A
22	160	14.8	1001	16	US-10-301-480A-317760	Sequence 317760, A
23	160	14.8	1001	18	US-10-301-480B-317760	Sequence 317760, A
24	128.4	11.9	600	23	US-11-136-527-6647	Sequence 6647, Ap
25	57.4	5.3	601	14	US-10-940-774A-183467	Sequence 183467, Ap
26	48.4	4.5	601	14	US-10-940-774A-183455	Sequence 183455, Ap
27	41.2	3.8	46	23	US-11-041-164A-9	Sequence 9, Appl
28	41	3.8	662	8	US-09-474-435A-141149	Sequence 141149, A
29	41	3.8	1563	7	US-09-474-435A-4765	Sequence 4765, Ap
30	40.8	3.8	492	7	US-09-925-065A-589942	Sequence 589942, A
31	39.8	3.7	563	7	US-09-925-065A-416395	Sequence 416395, A
32	39.8	3.7	575	10	US-10-301-480C-858068	Sequence 858068, A
33	39.8	3.7	575	16	US-10-301-480A-858068	Sequence 858068, A
34	39.8	3.7	575	17	US-10-301-480-481999	Sequence 481999, A
35	39.8	3.7	575	17	US-10-301-480-1095408	Sequence 1095408, A
36	39.8	3.7	575	18	US-10-301-480B-858068	Sequence 858068, A
37	39.8	3.7	981	25	US-60-669-241-2781	Sequence 2781, Ap
38	38.4	3.6	608	10	US-10-301-480C-932624	Sequence 932624, A
39	38.4	3.6	608	16	US-10-301-480A-932624	Sequence 932624, A
40	38.4	3.6	608	17	US-10-301-480-556555	Sequence 556555, A
41	38.4	3.6	608	17	US-10-301-480-1169964	Sequence 1169964, A
42	38.4	3.6	608	18	US-10-301-480B-932624	Sequence 932624, A
43	38.4	3.6	1478	23	US-11-136-527-1540	Sequence 1540, Ap
44	38.2	3.5	353	20	US-11-026-159-194	Sequence 194, App
45	38	3.5	566	10	US-10-301-480C-439615	Sequence 439615, A

ALIGNMENTS

RESULT 1  
PCT-US05-00517-3532

; Sequence 3532, Application PC/TUS0500517

; GENERAL INFORMATION:

; APPLICANT: THE OHIO STATE UNIVERSITY

; TITLE OF INVENTION: METHODS OF USING DATABASES TO CREATE GENE-EXPRESSION MICROARRAYS

; FILE REFERENCE: 18525-04130

; CURRENT APPLICATION NUMBER: PCT/US05/00517

; CURRENT FILING DATE: 2005-01-07

; PRIOR APPLICATION NUMBER: 60/535,111

; PRIOR FILING DATE: 2004-01-08

; NUMBER OF SEQ ID NOS: 3859

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 3532

; LENGTH: 1897

; TYPE: DNA

; ORGANISM: Canis familiaris

PCT-US05-00517-3532

Query Match 71.6%; Score 772.8; DB 1; Length 1897;  
Best Local Similarity 88.8%; Pred. No. 6.7e-200;  
Matches 860; Conservative 0; Mismatches 102; Indels 6; Gaps 2;

QY 79 GCACATATGGAGTGTGAGTCACACTCTCTGTGATGCCCTCTGCTCTCTGCTGTTCTT 138

Db 19 GCACATATGGAGTGTGATGATACATCTCTTTGTGATGCCCTCTGCTCTATGTGCTGCTT 78

QY 139 CCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGGCAGCAATTTTACAAACT 198

Db 79 CCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGGCAGCAATTTTACAAACT 138

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QY 199 CTCAAACATAAGCCTGGATGAGCTGGTAGTATTTTGGCAGACACGAGTAAGCTGGTTC 258
Db 139 CTCAAACATAAGCCTGGATGAGTGGTAGTATTTTGGCAGACACGAGTAAGCTGGTTC 198
QY 259 TGTATGAGATATTACAGAGCAAGAGAACCCCTCAAAATGTTTCATCTCAAAATATAAGGGCC 318
Db 199 TGTACGAGCTATACAGAGCAAGAGAACCCCTCAAAATGTTTCATCTGCAAGTATAAGGGCC 258
QY 319 GTACAGCTTTGACAAAGGACAACCTGGACCTGAGACTCCACAATGTTTCAGATCAAGGACA 378
Db 259 GCACAAGCTTTGACAAAGGACAATTTGGACCTGAGACTCCACAATATTTTCAGATCAAGGACA 318
QY 379 AGGGCACAATCACTGTTTCATCTATATAAGGGCCCAAGAGACTAGTTCCTCATGACC 438
Db 319 AGGGCTGTGATCAATGTTTCGTTTCATCTATAAGGGCCCAAGAGACTCGTTCCCATGACC 378
QY 439 AAATGAGTTCTGACCTATCAGTGTCTGCTTAACCTTCAGTCAACCTGAAATTAACAGTAACCT 498
Db 379 AGATGAACTCTGACCTATCAGTGTCTGCTTAACCTTCAGTCAACCTGAAATTAAGTAACTT 438
QY 499 CTAATAGAACAGAAATTTGGCATCATAAATTTGACCTGCTCATCTATACAAGGTTACC 558
Db 439 CTAATAGAACAGAAATTTCTGGCATCATAAATTTGACCTGCTCATCTCAACAAGGTTACC 498
QY 559 CAGAACCTAAGGAGATGTTATTTTCAGCTAAACACTGAGAAATTCAACTACTAAGTATGATA 618
Db 499 CAGAACCTAAGGAGATGTTATTTTGGTAAACACCGAGAAATTCAACTACTAAGTATGATA 558
QY 619 CTGTCAATGAAGAAATCTCAAAATAATGTGACAGAACTGTACAACTGTTCTATCAGCTTGC 678
Db 559 CTGTCAATGAAGAAATCTCAAAATAATGTGACAGAACTGTACAACTGTTCTATCAGCTTGT 618
QY 679 CTTTTCAGTCCCTGAAGCACACAATGTGAGCGTCTTTTGTGCCCCCTGAAACTGGAGACAC 738
Db 619 CTTTCTCAGTCCCTGAAGCAAGCAATGTGAGCATCTTCTGTGTCTCTGCAACTTGAGTCAA 678
QY 739 TGGAGATGTGCTCTCCCTACCTTTCAATATAGATGACCAACTAAGGATAAAGACCCCTG 798
Db 679 T---GAAGCTTCCCTCCCTACCTTTAATATAGATGACACA---TAGAAACCCACCCCTG 732
QY 799 AACAGGCCACTTCTCTGAGTTGCGGCTGTACTTGTAAATGTTTGTGTTTGTGGGA 858
Db 733 ATGGAGACCACATCTCTGAGTTGCGGCTGTCTTGTAAATGTTGTTGTTGTTGGGA 792
QY 859 TGTGTCTTTTAAACACTMAGAAAAGGAGAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 918
Db 793 TGTGTGTTCTTTTAAACACTMAGAAAAGGAGAAAGAGAGAGAGAGAGAGAGAGAGAGAGAG 852
QY 919 GTCAAAACCATCAAAAGGAGAGAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 978
Db 853 GTCAAAACCAACAAAGTGGAGAGAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 912
QY 979 ACGTACCTGAGAGATCTGATGAAGCCAGTGTGTTAAACATTTTGAAGACAGCCTCAGGGG 1038
Db 913 ATGAACGGAAGAGATCTGATGAAGCCAGTGTGTTAAACATTTTGAAGAGAGAGAGAGAGAG 972
QY 1039 ACAAAAT 1046
Db 973 ACAACAGT 980
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## RESULT 2

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US-11-170-797-13
; Sequence 13, Application US/11170797
; GENERAL INFORMATION:
; APPLICANT: Lechler, Robert
; APPLICANT: Rogers, Nichola
; APPLICANT: Dörfling, Anthony
; APPLICANT: ML Laboratories PLC
; TITLE OF INVENTION: IMPROVEMENT OF TOLERANCE TO A ZENOGRAPH
; FILE REFERENCE: 5585-59112-02
; CURRENT APPLICATION NUMBER: US/11/170,797
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; CURRENT FILING DATE: 2005-06-28
; PRIOR APPLICATION NUMBER: US 09/868,605
; PRIOR FILING DATE: 2001-06-19
; PRIOR APPLICATION NUMBER: PCI/GB99/04200
; PRIOR FILING DATE: 1999-12-17
; PRIOR APPLICATION NUMBER: 9827921.9
; PRIOR FILING DATE: 1998-12-19
; PRIOR APPLICATION NUMBER: 9925015.1
; PRIOR FILING DATE: 1999-10-23
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
; LENGTH: 994
; TYPE: DNA
; ORGANISM: Porcus spp
US-11-170-797-13
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Query Match 56.7%; Score 612.4; DB 23; Length 994;
Best Local Similarity 80.6%; Pred. No. 3.2e-156;
Matches 783; Conservative 0; Mismatches 171; Indels 18; Gaps 5;
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QY 84 ATGGGACTGAGTCACACTCTCTTGTGATGGCCCTCCTCTCTCTGCTCTCTGCTGTTTCTTCCATG 143
Db 1 ATGGGACTGAGTAACATCTCTTGTGATGGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTG 60
QY 144 AAGAGCTCAAGCATATTTCAACAAGACTCGAGAACTGCCATGCCATTTTACAAACTCTCAA 203
Db 61 AAAGTCAAGCATATTTCAATGAGACTCGAGAACTGCCGTGCCATTTTACAACTCGCAG 120
QY 204 AACATAAGCCCTGGATGAGCTGGTAGTATTTTGGCAGGACCCAGGATAAGCTGGTCTGTAT 263
Db 121 AACATAAGCCCTGGATGAGCTGGTAGTATTTTGGCAGGACCCAGGATAAGCTGGTCTGTAT 180
QY 264 GAGATATTCAGAGGCAAGAGAACTCCATAATGTTTCAATTAAGTATTAAGTATTAAGTATTAAG 323
Db 181 GAGCTATTAAGGAGCAAGAGAACTCCATAATGTTTCAATTAAGTATTAAGTATTAAGTATTAAG 240
QY 324 AGCTTTGACAGGACCACTGGACCTGAGACTTCCAACTGTTTCAATTAAGTATTAAGTATTAAG 383
Db 241 AGCTTTGACAGGACCACTGGACCTGAGACTTCCAACTGTTTCAATTAAGTATTAAGTATTAAG 300
QY 384 ACATATCACTGTTTCATTCATTAAGAGGCGCCAAAGACTAGTTCCTCATGACCAACAAATG 443
Db 301 TCATATCAATGTTTCATTCATTAAGAGGCGCGCATGGACTTGTTCCTATTCACCAAGATG 360
QY 444 AGTCTGACCTATCAGTGTCTGCTTAACCTTCACTCAACCTGAAATTAAGTATTAAGTATTAAG 503
Db 361 AGTCTGACCTATCAGTGTCTGCTTAACCTTCACTCAACCTGAAATTAAGTATTAAGTATTAAG 420
QY 504 AGAAGACAGAAATTTCTGGCATATAAATTTGACCTGCTCATCTATATACAAGTTTACCAGAA 563
Db 421 CACACAGAAATTTCTG---TCATAAATTTGACCTGCTCATCTATACAAGTTTACCAGAA 477
QY 564 CTTAAGGAGATGTTATTTTCACTAAGCACTGAGAAATTCATCTAAGTATTAAGTATTAAGTAT 623
Db 478 CCCCAGAGGATGATATGTTGCTTAATACGAAGAAATTCAACTGAGCATGATGATGATGATGATG 537
QY 624 ATGAAGAAATCTCAAAATAATGTGACAGAACTGTAAGTTTCTATCAGCTTGTCTTCTT 683
Db 538 ATGAAGAAATCTCAAAATAATCAACCGGAACTCTCAATGATTAAGTATTAAGTATTAAGTAT 597
QY 684 TCAGTCCCTGAAAGCACAAATGTGAGCGTCTTTTGTGCCCTGAAACTGGAGACACTGGAG 743
Db 598 CCAATCCCTCCGAGACAAATGTGAGCATCGTCTGTGCTCTCAACTTGGAGCAAGCAAG 657
QY 744 A---TGCTGCTCTCCCTACCTTTCAATATAGATGACAACTTAAGTATTAAGTATTAAGTATTAAG 800
Db 658 ACACCTGCTTTTCTCCCTACCTTTGTAATATAGATGCAAGGCCACCTGTGCAACCCCTCTGTC 717
QY 801 CAAGGCCACTCTCTGGAATCGGCTGACTTGTAAATGTTTGTGTTTGTGTTTGTGTTGTTGTTGTTG 860
Db 718 CCAGACCAATCTCTGGAATGAGCTCTACTTGTAAACAGTGTGCTGTTGTTGTTGTTGTTGTTGTT 777
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Db 422 ACAATCTTCAGATCAAGGCTTGTATCAATGTATCATCCATCAAAAAACCCCA 481  
QY 418 AAGGACTAGTTCCCATGACCAATAGTCTGACCTATCAGTCTTGTAACTTCAGTC 477  
Db 482 CAGGAATGATCGCATCCACCATGATGATCTGAACTGTCAGTCTTGTAACTTCAGTC 541  
QY 478 AACCTGAAATACAGTAACCTTCTTAATAGAACAGAAATCTTGSCATCATATAATTTGACCT 537  
Db 542 AACCTGAAATAGTACCAATTTCTTAATATAACAGAAAA---TGTGTACATAAATTTGACCT 598  
QY 538 GCTCATCTATACAGGTTACCCAGAACCTTAAGAGATGTATTTTCAGTCAAAACACTGAGA 597  
Db 599 GCTCATCTATACAGGTTACCCAGAACCTTAAGAGATGTATTTTCAGTCAAAACACTGAGA 658  
QY 598 ATTCAACTACTAGTATGATCTGCTATGAGAAATCTCAAAATATGTGACAGACTCT 657  
Db 659 ATTCAACTACTAGTATGATGTATGAGAAATCTCAAAATATGTGACAGACTCT 718  
QY 658 ACAACGTTTCTATCAGCTTGCCTTTTTCAGTCCCTGAAG---CACACAATGTGAGCGTCT 714  
Db 719 ACGACGTTTCCATCAGCTTGTCTGTTTTCATTCCTCGATGTACGAGCAATATGACCATCT 778  
QY 715 TTTGTGCTGAACTGAGACACTGAGATGCTCTCCCTCACTCTGATTTGGGCTGTACTTG 774  
Db 779 TCTGTATCTGGAACCTGACA---AGACGGCGCTTTTATCTTCACCTTTCTCTATAG--- 832  
QY 775 CACAACTAGGATAAAGACCTGAAACAGGCACTTCTCTGATTTGGGCTGTACTTG 834  
Db 833 ---AGCTTGAGGACCTCAGCTTCCCGACACCAATCTTGGATTAAGCTGTACTTC 889  
QY 835 TTAATGTTGTTTGTGGATGCTGCTTTTAAACACACTAAGGAAAAGAGAGAGA 1009  
Db 955 AGACCAACGAAAGAGTACCACCTGAGAGATCTGATGAAGCCCAAGTGTG--- 1011  
1010 AGACCAACGAAAGAGAAAAATCCATATACCTGAAAGATCTGATGAAGCCCAAGTGTGTT 1069  
QY 1012 TTAACATTTTGAAGCAGCTCAGGGGACAAAAATCA 1048  
Db 1070 TTAAGATTCGAAGACATCTTCATCGCAAAAGTGA 1106

RESULT 5  
US-10-940-774A-5261  
; Sequence 5261, Application US/10940774A  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/10/940,774A  
; CURRENT FILING DATE: 2004-09-15  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 5261  
; LENGTH: 1600  
; TYPE: DNA  
; ORGANISM: Human  
US-10-940-774A-5261

Query Match 53.8%; Score 580.6; DB 14; Length 1600;  
Best Local Similarity 75.9%; Pred. No. 1.8e-147;

Matches 802; Conservative 0; Mismatches 234; Indels 21; Gaps 6;  
QY 1 GTTCTGTGTTCTCGGAATGCTCACTGAGCTTATACATCTCGTCTCTG---GGAGCTGC 57  
Db 62 GCTCTGTGTTCTCGGAATGCTGCTGTGCTTATGCATCTGGTCTCTTTTGGAGCTAC 121  
QY 58 AGTGGATGGGCAATTTGTGACAGCACTATGGGACTGAGTCACACTCTCTCTGTGTGATGGCCC 117  
Db 122 AGTGACAGGCAATTTGTGACAGCACTATGGGACTGAGTAAACATTCTCTTTGTGATGGCCT 181  
QY 118 TCTGCTCTCTGCTGTTTCTTCATGAAGAGTCAAGCATATTTCAACAGACTGAGAGAAC 177  
Db 182 TCTGCTCTCTGCTGCTCTCTGAAAGTTCAGAGTTCAGAGTTCAGAGTTCAGAGTTCAGAGC 241  
QY 178 TGGCATGCCATTTTCAAACTCTCAAAATAGGCTGATGAGCTGTGATGATTTTGGC 237  
Db 242 TGCCATGCCAATTTTCAAACTCTCAAAAGGCTGAGTGTGATGATTTTGGC 301  
QY 238 AGGACGAGGATAAGCTGTTCTGTATGAGATATTCAGAGGCAAGAGAACCCCTCAAAATG 297  
Db 302 AGGACGAGGAAATTTGTTCTGATGAGGTATCTTAGGCAAGAGAAATTTGACAGTG 361  
QY 298 TTTCTATCTCAAATATAAGGGCCGTAACAAGCTTTGACAAGGACAACTGGACCTGAGACTCC 357  
Db 362 TTTCAITTCAAAGTATATGGGCCGCAAGAGTTTGAITTCGACAGTTGGACCTTGAGACTTC 421  
QY 358 ACAATGTTTCAGATCAAGGACAGGCAATATCATCTGTTTCAATCATTAAGAGGCCCA 417  
Db 422 ACAATCTTCAGATCAAGGACAAAGGCTTGTATCAATGTATCATCCATCAAAAAAGCCCA 481  
QY 418 AAGGACTAGTTCCCATGACCAAAATGAGTTCTGAGCTATCAGTGTCTGTAATCTTCAGTC 477  
Db 482 CAGGAATGATTCGATCCACAGATGAATTTCTGAACTGTCAGTGTCTGTAATCTTCAGTC 541  
QY 478 AACCTGAAATAACAGTAACCTTCTTAATAGAACAGAAAAATTTCTGGCATCATATAATTTGACCT 537  
Db 542 AACCTGAAATAGTACCAATTTCTTAATATAACAGAAAA---TGTGTACATAAATTTGACCT 598  
QY 538 GCTCATCTATACAAGGTTTACCCAGAACCTTAAGGAGATGTATTTTTCAGCTTAAACACTGAGA 597  
Db 599 GCTCATCTATACAGGTTTACCCAGAACCTTAAGAGATGATGTTTGTCTTAAGAACCAAGA 658  
QY 598 ATTCAACTACTAAGTATGATCTGTCATGAAGAAATCTCAAAATATGTGACAGAACTGT 657  
Db 659 ATTCAACTACTCGAGTATGATGTTATGTCAGAAATCTCAAGATATATGTCACAGAACTGT 718  
QY 658 ACAAGCTTTCTATCAGCTTGCCTTTTTCAGTCCCTGAAG---CACACAATGTGAGCGTCT 714  
Db 719 ACGAGCTTTCCATCAGCTTGTCTGTTTTCATTCCTCTGATGTTACGAGCAATATGACCATCT 778  
QY 715 TTTGTGCTGCTGAACTGGAGACACTGAGATGCTGCTCCCTACCTTTTCAATATAGATG 774  
Db 779 TCTGTATCTTGGAAACTGACA---AGACGGCGCTTTTATCTTCACCTTTCTCTATAG--- 832  
QY 775 CACAACTTAAGGATAAAGACCTGAAACAGGCACTTCTCTGATTTGGGCTGTACTTG 834  
Db 833 ---AGCTTGAGGACCTCAGCTTCCCGACACCAATCTTGGATTAAGCTGTACTTC 889  
QY 835 TTAATGTTGTTTGTGGATGCTGCTTTTAAACACACTAAGGAAAAGAGAGAGA 894  
Db 890 CAACAGTTTATATATGTGTGATGTTTCTGTCTAATTCATGGAATTCGAAAGAGAGA 949  
QY 895 AGCAGCTGGCCCTCTCATGAACTGAAACCATCAAAAGGAGAGAGAGAGAGAGAGAGAGAG 954  
Db 950 AGCGGCTCGCACTCTTATAATGTGGAACCAACACATGAGAGGAGAGAGAGAGAGAGAGAG 1009  
QY 955 AGACCAACGAAAGAGTACCACCTGAGAGATCTGATGAAGCCCAAGTGTG--- 1011  
1010 AGACCAACGAAAGAGAAAAATCCATATACCTGAAAGATCTGATGAAGCCCAAGTGTGTT 1069  
QY 1012 TTAACATTTTGAAGCAGCTCAGGGGACAAAAATCA 1048  
Db 1070 TTAAGATTCGAAGACATCTTCATCGCAAAAGTGA 1106

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RESULT 6
US-10-302-689A-14809
; Sequence 14809, Application US/10302689A
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Asundi, Vinod
; APPLICANT: Ballinger, Dennis
; APPLICANT: Labat, Ivan
; APPLICANT: Leshkowitz, Dena
; APPLICANT: Liu, Jin
; APPLICANT: Loeb, Deborah
; APPLICANT: Montgomery, Julia, R.
; APPLICANT: Pace, Ann M.
; APPLICANT: Sheridan, James P.
; APPLICANT: Drmanac, Radjoe T.
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 502CIP
; CURRENT APPLICATION NUMBER: US/10/302,689A
; CURRENT FILING DATE: 2002-11-22
; PRIOR APPLICATION NUMBER: 10/273,573
; PRIOR FILING DATE: 2002-10-18
; PRIOR APPLICATION NUMBER: 10/084,643
; PRIOR FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: 09/989,660
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: 10/014,487
; PRIOR FILING DATE: 2001-11-08
; PRIOR APPLICATION NUMBER: 09/952,981
; PRIOR FILING DATE: 2001-09-14
; PRIOR APPLICATION NUMBER: 09/922,279
; PRIOR FILING DATE: 2001-08-03
; PRIOR APPLICATION NUMBER: 09/905,059
; PRIOR FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: 09/898,888
; PRIOR FILING DATE: 2001-07-03
; PRIOR APPLICATION NUMBER: 09/919,002
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 09/770,160
; PRIOR FILING DATE: 2001-01-26
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 158931
; SOFTWARE: pt_seq_genes Version 1.0
; SEQ ID NO 14809
; LENGTH: 1926
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(1926)
; OTHER INFORMATION: n = a,t,c or g
US-10-302-689A-14809

Query Match 53.8%; Score 580.6; DB 9; Length 1926;
Best Local Similarity 75.9%; Pred. No. 1.9e-147;
Matches 802; Conservative 0; Mismatches 234; Indels 21; Gaps 6;

QY 1 GTTCTGTGTTCTCGGGAATGTCATGAGCTTATACATCTGGTCTCTG---GGAGCTGC 57
DB 62 GCTTCTGTGTTCTCGGGAATGTCATGAGCTTATACATCTGGTCTCTCTTTTGGAGCTAC 121
QY 58 AGTGGATGGCATTCTGACAGCACTATGGAGCTGAGTACACTCTCTCTGTGATGGCCC 117
DB 122 AGTGGACAGCACTTGTGACAGCACTATGGAGCTGAGTAACTCTCTTTGTGATGGCCT 181
QY 118 TCTGTCTCTGTGTTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAAC 177
DB 182 TCTGTCTCTGTGTTCTCTCTGAGATTCAGCTTATTTCAATGAGAGTGCAGACC 241
QY 178 TGCCATGCCATTTTACAACTCTCAAAACATAGCCCTGGATGAGCTGGTAGTATTTTGGC 237
DB 242 TGCCATGCCAATTTGCAAACTCTCAAAACCAAAAGCTGAGTGTAGTAGTATTTTGGC 301

238 AGGACCAGGATAAGCTGGTTTCTGTATGAGATATTAGAGGCAAGAGAAACCTTCAAAATG 297
302 AGGACCAGGAAACTTGGTTCTGAATGAGTATATTAGGCAAGAGAAATTTGACAGTG 361
298 TTCACTCTCAAAATATAAGGGCCGTACAAGCTTTGACAAGGACAACTGGACCTGAGACTCC 357
362 TTCAATTCGAATATATGGGCGCACAAAGTTTGTATTCGACAGTTGGACCTGAGACTTC 421
358 ACAATGTTTCAGATCAAGGACAAGGGCACATATACACTGTTTCTATTTCAATTAAGAGGCCCA 417
422 ACAATCTTCAGATCAAGGACAAGGGCTTGTATCAATGTATCATCTCAATAAAGGCCCA 481
418 AAGGACTAGTTCCTCATGACCAAAATGAGTTCTGACCTATCATGCTGTGCTAACTTCAGTC 477
482 CAGGAATGATTCGCATCCACCAAGATGAATCTGAACTGTGCTGCTTCACTTCACTC 541
478 AACCTGAAATAACAGTAATCTTAATAGAACAGAAATTTCTGGCATCATAAATTTGACCT 537
542 AACCTGAAATAGTACCAATTTCTAATATAACAGAAAA---TGTGTACATAAAATTTGACCT 598
538 GCTCATCTATACAAGGTTACCCAGACCTTAAGAGAGATGATTTTTCAGCTTAACACTGAGA 597
599 GCTCATCTATACACGGTTTACCAGAACCTTAAGAAGATGAGTGTGTTTCTTAAGAACCAGA 658
598 ATTCAACTACTAAGTATGATCTGTCATGAAGAAATCTCAAAATAATGTGACAGAACTGT 657
659 ATTCAACTATCGATGATGATGATATATGACAGAAATCTCAAGTATATGTACAGAACTGT 718
658 ACAAGCTTTTCTATCAGCTTGCCTTTTTCAGTCCCTGGAAG---CACACAATGTGAGCGTCT 714
719 ACGAGCTTTTCCATCAGCTTGTGTTTTCATTTCCCTGATGTTAGGAGCAATATGACCATCT 778
715 TTTGTGCTTGAAGCTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTCAATATAGATG 774
779 TCTGTATTCTGGAAGCTGACA---AGACGCGCTTTTATCTTTCACCTTTCTCTATAG--- 832
775 CACAACCTAAGGATTAAGACCTGTAACAGGACCTTCTCTGATTTGGGCTGTACTTGG 834
833 ---AGCTTGAGGACCTCAGCTTCCCTCAGACACACATTCCTTGGATTACAGCTGTACTTC 889
835 TAATGTTGTTGTTTGTGGGATGTTGTTTCTCTTAAACACTAAGGAAAGGAGGAAGA 894
890 CAACAGTTATTATATATGTGTGTTTCTGCTTAATCTATGGAATCGAAGAGGAAGA 949
895 AGCAGCTGGCCCTCTCATGAATGTGAACCATCAAAAGGAGAGAGAGAGAGCAAAAC 954
950 AGCGGCTCGCAACTCTTATAAATGTGAACCAACACATGAGAGAGGAGAGAGTGAAC 1009
955 AGACCAACGAAAGAGTACCATACCTGAGTACCTGAGAGATCTGATGAAGCCAGTGTG--- 1011
1010 AGACCAAGAAAGAGAAATAATCCATATACCTGAAAGATCTGATGAAGCCAGCGTGT 1069
1012 TTAACATTTTGAAGACAGCTCAGGGGACAAAAATCA 1048
1070 TTAAGATTGGAAGACATCTTCATGCGACAAAAGTCA 1106

RESULT 7
US-11-041-164A-33
; Sequence 33, Application US/11041164A
; GENERAL INFORMATION:
; APPLICANT: Mourich, Dan V.
; APPLICANT: Iversen, Patrick L.
; TITLE OF INVENTION: Antisense oligomers and methods for inducing immune tolerance an
; FILE REFERENCE: 50450-8065.US00
; CURRENT APPLICATION NUMBER: US/11/041,164A
; CURRENT FILING DATE: 2005-01-21
; PRIOR APPLICATION NUMBER: US 60/538,655
; PRIOR FILING DATE: 2004-01-23
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: PatentIn version 3.3
```

; SEQ ID NO 33  
; LENGTH: 2717  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-11-041-164A-33

Query Match 53.8%; Score 580.6; DB 23; Length 2717;  
Best Local Similarity 75.9%; Pred. No. 2.1e-147;  
Matches 802; Conservative 0; Mismatches 234; Indels 21; Gaps 6;

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QY 1 GTTCTGTGTTCTCGGGAATGTCACCTGAGCTTATACATCTGTGTCCTG---GGAGCTGC 57
Db 62 GCTTCTGTGTTCTCGGGAATGTCGTCGTCATGTCATCTGTGTCCTTTTGGAGCTAC 121
QY 58 AGTGGATGGCAATTTCTGACAGCACTATGGCTGAGTCACACTCTCCTTGTGATGGCCC 117
Db 122 AGTGGACAGCAATTTCTGACAGCACTATGGCTGAGTAACACTTCTTTTGTGATGGCCT 181
QY 118 TCTGCTCTCTGTGTTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAAC 177
Db 182 TCTGCTCTCTGTGTTCTTCCATGAAGTCAAGCATATTTCAACAAGACTGGAGAAC 241
QY 178 TGGCATGCCATTTTCAAACTCTCAAAACATGAAGCTGAGCTGGTAGTATTTTGGC 237
Db 242 TGGCATGCCAATTTTCAAACTCTCAAAACATGAAGCTGAGCTGGTAGTATTTTGGC 301
QY 238 AGGACCAAGATAGCTGGTCTGTATGAGATATTCAGAGGCAAGAGACCTCAAAATG 297
Db 302 AGGACCAAGAACTTTGGTCTTGAATGAGGTATCTTGGCAAGAGAAATTTGACAGTG 361
QY 298 TTCATCTCAAAATATAAGGCGGTACAAAGCTTTTGACAAGGACAACCTGGACCTGAGACTCC 357
Db 362 TTCATTTCCAAGTATATGGCGCGACAAAGTTTGGATCGGACAGTTGGACCTGAGACTTC 421
QY 358 ACAATGTTTCAGATCAAGGCAAGGGCACATATACATCTGTTTCAATTAATAAGGSCCA 417
Db 422 ACAATCTTCAGATCAAGGCAAGGGCTTGTATCAATGTATATCCATCACAAAAACCCCA 481
QY 418 AGGAGTACTTCCATGACCAAAAGTCTGACCTATGACCTATGAGTGTGCTTAACCTCAGTC 477
Db 482 CAGGAATGATTCGCATCCACAGATGAATCTGAACTGTCAAGTGTGCTTAACCTCAGTC 541
QY 478 AACCTGAAATACAGTAACTTCTAATAGAACAGAAAATTTCTGGCATATAAATTTGACCT 537
Db 542 AACCTGAATAGTACCAATTTCTAATATAACAGAAA---TGTTGATACATAAATTTGACCT 598
QY 538 GCTCATCTATACAGGTTACCGAGAACCTTAAGAGATGATTTTTCAGTAAACACATGAGA 597
Db 599 GCTCATCTATACAGGTTACCGAGAACCTTAAGAGATGATGTTTGTCTAAGAACCAAGA 658
QY 598 ATTCAACTACTAAGTATGATCTGTCATCAAGAAATCTCAAAATATATGTGACAGACTGT 657
Db 659 ATTCAACTACTAAGTATGATGTTATGAGAAATCTCAAGAAATATGTGACAGAACTGT 718
QY 658 ACAACCTTTTCTATCAGCTTGGCTTTTTCAGTCCCTGAAG---CACAAATGTGAGGCTCT 714
Db 719 ACGACGTTTCCATCAGCTTGTCTGTTTTCATTCCTGATGTAGGACCAATATGACCACT 778
QY 715 TTTGTCCTGAAACTGAGAGACACTGGAGATGCTGCTCCCTCACTTTCAATATATAGTG 774
Db 779 TCTGTATTTCTGGAACCTGACA---AGACGCGGCTTTTATCTTCACTTCTCTATAG--- 832
QY 775 CACAACCTAAGGATAAAGCCCTGAACAGGCCACTTCTCTGGATTTGGCTGTACTTTG 834
Db 833 ---AGCTTGAGGACCTCAGCTTCCCGAGACACATCTCTTGGATTACAGCTGTACTTC 889
QY 835 TAATGTTGTGTTTGTGGATGGTGTCTTTTAAACACTAAGGAAAAGGAAGA 894
Db 890 CAACAGTTATATATGTGTGATGGTTTCTGTCTAATTTCTATGGAATGGAAGAGA 949
QY 895 AGCAGCTGCGCCCTCTCATGAAATGTGAACCAATCAAAAGGGAGAGAAAGAGCAAAAC 954
Db 950 AGCGGCTCGCAACTCTTATAAATGTGAACCAACCAATGGAGAGGGAAGAGTGAAC 1009
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QY 955 AGACCAACGAAGAGCTACATACCACCTGAGAGATCTGATGAAGCCAGTGTG--- 1011
Db 1010 AGACCAAGAAAAGAGAAAATCCATATACCTGAAGAATCTGATGAAGCCAGCGTGT 1069
QY 1012 TTAACATTTTGAAGACAGCCTCAGGGGCAAAAATCA 1048
Db 1070 TTAAGAATTCGAAGACATCTTCATCGACAAAAGTGA 1106
```

RESULT 8  
PCT-US05-18533-16  
; Sequence 16, Application PC/TUS0518533  
; GENERAL INFORMATION:  
; APPLICANT: The Trustees of the University of Pennsylvania  
; APPLICANT: Riley, James  
; APPLICANT: June, Carl  
; APPLICANT: Vonderheide, Robert  
; APPLICANT: Aquil, Nicole  
; APPLICANT: Suboski, Megan  
; TITLE OF INVENTION: NOVEL ARTIFICIAL ANTIGEN PRESENTING CELLS AND USES THEREFOR  
; FILE REFERENCE: 053893-5054PCL  
; CURRENT APPLICATION NUMBER: PCT/US05/18533  
; CURRENT FILING DATE: 2005-06-03  
; PRIOR APPLICATION NUMBER: US 60/575,712  
; PRIOR FILING DATE: 2004-05-27  
; NUMBER OF SEQ ID NOS: 22  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 16  
; LENGTH: 2794  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
PCT-US05-18533-16

Query Match 53.8%; Score 580.6; DB 1; Length 2794;  
Best Local Similarity 75.9%; Pred. No. 2.1e-147;  
Matches 802; Conservative 0; Mismatches 234; Indels 21; Gaps 6;

```
QY 1 GTTCTGTGTTCTCGGGAATGTCACCTGAGCTTATACATCTGTGTCCTG---GGAGCTGC 57
Db 62 GCTTCTGTGTTCTCGGGAATGTCGTCGTCATGTCATCTGTCCTTTTGGAGCTAC 121
QY 58 AGTGGATGGCAATTTTGTGACAGCACTATGGGACTGAGTCACACTCTCCTTGTGATGGCCC 117
Db 122 AGTGGACAGCAATTTTGTGACAGCACTATGGGACTGAGTAACACTTCTTTTGTGATGGCCT 181
QY 118 TCTGCTCTCTGTGTTTCTTCCATGAAGAGTCAAGCATATTTTCAACAAGACTGGAGAAC 177
Db 182 TCTGCTCTCTGTGTCGTCCTCTCTGAAAGATTTCAAGCTTATTTCAATGAGACTGCAGACC 241
QY 178 TGCCATGCCATTTTACAACTCTCAAAACATAAGCCTGAGTGGTGTGATTTTGGC 237
Db 242 TGCCATGCCAATTTGCAAACTCTCAAAACATAAGCCTGAGTGGTGTGATTTTGGC 301
QY 238 AGGACCAAGATAAGCTGTTCTGTATGAGATATTCAGAGGCAAGAGAACCTTCAAAATG 297
Db 302 AGGACCAAGAAAACCTTGGTCTTGAATGAGGTATCTTAGGCAAGAGAAATTTGACAGTG 361
QY 298 TTCATCTCAAAATATAAGGGCCGTAACAGCTTTGACAAGCAACCTGGAGCCCTGAGACTCC 357
Db 362 TTCATTTCCAAGTATATGGGCGCGACAAGTTTGTATTCGACAGTTGGACCTTGGAGACTTC 421
QY 358 ACAATGTTTCAGATCAAGGACAGGGCACATATCAGTGTTCATTTCAATTAATAAGGSCCA 417
Db 422 ACAATCTTCAGATCAAGGACAGGGCTTGTATCAATGATATCATCCATCAAAAAGGCCCA 481
QY 418 AAGGACTAGTTCCTCATGACCAAAATGAGTTCCTGACCTATCAGTGTGCTTAACCTCAGTC 477
Db 482 CAGGAATGATTCGCATCCACAGATGAATTTCTGAACTGTGAGTGTGCTTAACCTCAGTC 541
QY 478 AACCTGAAATACAGTAACTTCTAATAGAACAGAAAATTTCTGGCATATAAATTTGACCT 537
Db 542 AACCTGAAATAGTACCAATTTCTAATATAACAGAAA---TGTTGATACATAAATTTGACCT 598
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Qy	538	GCTCATCTATACAAGGTTACCCAGAACTTAAGGAGATGATTTTTCAGCTAAACA	CTGAGA	597
Db	599	GCTCATCTATACAAGGTTACCCAGAACTTAAGGAGATGAGTGTGTTGCTAAGAACCA	GA	658
Qy	598	ATTCAACTACTAAGTATGATACTCTCATGAAGAAATCTCAAAATAATGTGACAGAACTGT	CTGT	657
Db	659	ATTCAACTATCGATGATGATGGTATTATGCAAGAAATCTCAAGATAATGTGACAGAACTGT	CTGT	718
Qy	658	ACAAAGTTTCTATCAGCTGTGCTTTTTCAGTGCCCTGAAG---CACACAAATGTGAGCGTCT	CT	714
Db	719	ACGAGTTTCCATCAGCTTGTCTGTTTCATTCCTCGATGTTACAGAGCAATATGACCACT	CT	778
Qy	715	TTTGTGCCCTGAACCTGGAGACATGGAGATGCTGCTCTCCCTACCTTTCAATATAGATG	CT	774
Db	779	TCTGTATTTCTGAAACTGACA---AGACGGGCTTTTATCTTCACCTTTCTCTATAG---	CT	832
Qy	775	CACAACTTAAGGATAAGACCTGAAACAGGCCACTTCTCTGTGAATTCGGGCTGTACTTG	CT	834
Db	833	---AGCTTGAGGACCCCTCAGCCTCCCCAGACCACTTCTCTGGATTACAGCTGTACTTC	CT	889
Qy	835	TAATGTTTGTGTTTTTGTGGGATGTGTCCTTTAAACACATTAAGGAAAGGAGAGAGA	CT	894
Db	890	CAACAGTTATTATATGTGTGATGTTTCTGTCTAAATTCCTATGGAATGGAAGAGAGA	CT	949
Qy	895	AGCAGCTGGCCCTCTCATGAATGTGAACCATCAAAAGGGAGAGAAAAGAGAGCAAC	CT	954
Db	950	AGCGGCTTCGCACTCTTATAATGTGGAAACCAACACATGGAGAGGGAAGAGATGAAC	CT	1009
Qy	955	AGACCAACGAAAGTAGTACCATPACCAGTCTCTGAGAGATCTGATGAAGCCAGCTGTG---	CT	1011
Db	1010	AGACCAAGAAAAGAGAAAATCCATATACCTGAAAGATCTGATGAAGCCAGCGTGT	CT	1069
Qy	1012	TTAACATTTGAAGACAGCCTCGGGGACAAAATCA	CT	1048
Db	1070	TTAAAGTTCGAAGACATCTTTCATCGCAGCAAAAGTGA	CT	1106

## RESULT. T 9

```

PC1-US05-18790-54
; Sequence 54, Application PC/TUS0518790
; GENERAL INFORMATION:
; APPLICANT: PRESIDENT AND FELLOWS OF HARVARD COLLEGE
; TITLE OF INVENTION: METHODS OF MODULATING THE REPRODUCTIVE ENDOCRINE SYSTEM
; TITLE OF INVENTION: BY MODULATION OF TNF-alpha ACTIVITY
; FILE REFERENCE: HUI-055PC
; CURRENT APPLICATION NUMBER: PC/TUS05/18790
; CURRENT FILING DATE: 2005-06-06
; PRIOR APPLICATION NUMBER: 60/575,143
; PRIOR FILING DATE: 2004-05-28
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: PatentIn 3.3
; SEQ ID NO 54
; LENGTH: 2794
; TYPE: DNA
; ORGANISM: Homo sapiens
PC1-US05-18790-54

```

RESULT 10

US-11-137-807-16  
 ; Sequence 16, Application US/11137807  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Riley, James  
 ; APPLICANT: June, Carl  
 ; APPLICANT: Vonderheide, Robert  
 ; APPLICANT: Aquil, Nicole  
 ; APPLICANT: Suhoski, Megan  
 ; TITLE OF INVENTION: NOVEL ARTIFICIAL ANTIGEN PRESENTING CELLS AND USES THEREFOR  
 ; FILE REFERENCE: 053893-5054US1

; CURRENT APPLICATION NUMBER: US/11/137,807									
; CURRENT FILING DATE: 2005-05-25									
; PRIOR APPLICATION NUMBER: US 60/575,712									
; PRIOR FILING DATE: 2004-05-27									
; NUMBER OF SEQ ID NOS: 22									
; SOFTWARE: PatentIn version 3.3									
; SEQ ID NO 16									
; LENGTH: 2794									
; TYPE: DNA									
; ORGANISM: Homo sapiens									
US-11-137-807-16									
Query Match 53.8%; Score 580.6; DB 23; Length 2794;									
Best Local Similarity 75.9%; Pred. No. 2.1e-147;									
Matches 802; Conservative 0; Mismatches 234; Indels 21; Gaps 6									
Qy	1	GTTTCTGTGTTCTCTGGGAATGTCACTAGCTTATACATCTGGTCTCTG---	GGAGCTGC	57					
Db	62	GCTTCTGTGTTCTCTGGGAATGCTGCTGCTTATGCACTGCTCTCTTTTGGAGTAC	121						
Qy	58	AGTGGATGGCAATTTGTACAGCACTATGGGACTGAGTCACACTCTCCTGTGTATGGGCC	117						
Db	122	AGTGGACAGGCATTTGTACAGCACTATGGGACTGAGTAACATCTCTTTGTATGGGCT	181						
Qy	118	TCCTGCTCTCTGGTGTTCCTCCATGAAGAGTCAAGCATATTTCAAACAAGCTGAGAAC	177						
Db	182	TCCTGCTCTCTGGTCTCTCTCTGAAGTTCAGCTTATTTCAATGAGACTGCAGACC	241						
Qy	178	TGCCATGCAATTTTACAACTCTCAAACAATAGCCTGGATGAGCTGTGTATTTTGGC	237						
Db	242	TGCCATGCAATTTTGCAAACTCTCAAAACCAAGCCTGAGTGAGCTAGTAGTATTTTGGC	301						
Qy	238	AGGACCAAGATAAGCTGTCTGTATGATGATATTCAGAGGCAAGAACCCCTCAAAATG	297						
Db	302	AGGACCAAGAAAACTTGGTCTTGAATGAGTATCTTAGGCAAGAGAAATTTGACAGTG	361						
Qy	298	TTCAATCTCAAAATATAAGGGCCGTACAAGCTTTTGACAAGACAACTGGACCCCTGAGACTCC	357						
Db	362	TTCAATCTCAAGATATATGGCCGCACAAGTTTTGATTCGGACAGTTGGACCCCTGAGACTTC	421						
Qy	358	ACAAATGTTTCAGATCAAGACACAGGCAATATCACTGTTTCATTCATTTATAAGGGCCA	417						
Db	422	ACAAATCTTCAGATCAAGACACAGGGCTGTATCAATGTATCATCCATCAAAAAAGCCCA	481						
Qy	418	AAGCACTAGTTCCCATGCAACAAATGAGTTCTGACCTATCACTGCTGTGCTAACTTCAGTC	477						
Db	482	CAGGAATGATTCGCATCCACAGATGAAATCTGAACTGTCACTGTCTGCTAACTTCAGTC	541						
Qy	478	AACCTGAAATACAGTAATCTCTAATAGAAACAGAAAAATCTGGCATCAATAATTTGACCT	537						
Db	542	AACCTGAAATAGTACCAATTTCTAATATAACAGAAAA---TGTGTACATAAAATTTGACCT	598						
Qy	538	GCTCATCTATACAAGGTTTACCAGAACCTTAAGGAGATGTATTTTCAGCTTAAACACTTGACA	597						
Db	599	GCTCATCTATACAAGGTTTACCAGAACCTTAAGGAGATGTATTTTCAGCTTAAACACTTGACA	658						
Qy	598	ATTCAACTACTAAGTATGATCTGTCAATGAAGAAATCTCAAAATATGTGACAGAACTGT	657						
Db	659	ATTCAACTATCAGTATGATGTTATTTATGCAAAATCTCAAGATAATGTCAAGAACTGT	718						
Qy	658	ACAACTGTTCTATCAGTGTGCTTTTTCAGTCCCTGAAG--CACACATGTGAGGCTCT	714						
Db	719	ACGAGCTTTCCATCAGCTTGTCTGTTTCATTCCTGTATGAGCAATATGACCATCT	778						
Qy	715	TTTGTGCCCTGAAACTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTCAATATAGATG	774						
Db	779	TCTGTATTCGAAACTGACA--AGACGCGCTTTTATCTTTCACCTTCTCTATAG---	832						
Qy	775	CACAACTTAAGGATAAAGCCCTGAAACAGGCCACTTCTCTGGATGGCGCTGTACTTGG	834						
Db	833	---AGCTTTGAGGACCCCTCAGCGCTCCCCAGACCAATCTCTTTGGATATCAGCTGTACTTC	889						
Qy	835	TAATGTTTGTGTTTTTTTGTGGGATGGTGTCTTTTAAAAACATTAAGAAAAAGGAAGA	894						





Db 958 AATGTGGAACCAACACATATGGAGAGGAGAGAGTGAACAGACCAAGAAAGAGAAAAA 1017  
Qy 976 ACCAGTACTGAGAGATCTGATGAAGCCAGCTGTG---TTAAACATTTTGAAGACAGCCT 1032  
Db 1018 TCCATATACCTGAAGATCTGATGAAGCCAGCGTGTGTTTAAAGAGTTCGAAGACATCTT 1077  
Qy 1033 CAGGGGACAAAAATCA 1048  
Db 1078 CATGCGACAAAAGTGA 1093

## RESULT 13

US-11-170-797-2  
; Sequence 2, Application US/11170797  
; GENERAL INFORMATION:  
; APPLICANT: Lechler, Robert  
; APPLICANT: Rogers, Nichola  
; APPLICANT: Dorling, Anthony  
; APPLICANT: ML Laboratories PLC  
; TITLE OF INVENTION: IMPROVEMENT OF TOLERANCE TO A ZENOGRFT  
; FILE REFERENCE: 5585-59112-02  
; CURRENT APPLICATION NUMBER: US/11/170,797  
; CURRENT FILING DATE: 2005-06-28  
; PRIOR APPLICATION NUMBER: US 09/868,605  
; PRIOR FILING DATE: 2001-06-19  
; PRIOR APPLICATION NUMBER: PCT/GB99/04200  
; PRIOR FILING DATE: 1999-12-17  
; PRIOR APPLICATION NUMBER: 9827921.9  
; PRIOR FILING DATE: 1998-12-19  
; PRIOR APPLICATION NUMBER: 9925015.1  
; PRIOR FILING DATE: 1999-10-23  
; NUMBER OF SEQ ID NOS: 39  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 2  
; LENGTH: 972  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-11-170-797-2

Query Match 48.9%; Score 528.2; DB 23; Length 972;

Best Local Similarity 75.2%; Pred. No. 3e-133;  
Matches 730; Conservative 0; Mismatches 223; Indels 18; Gaps 5;

Qy 84 ATGGGAGTGAATCAGACTCTCTGTGATGGCCCTCCTGCTCTCTGTGTTCTTCATG 143  
Db 1 ATGGGAGTGAATCAGACTCTCTGTGATGGCCCTCCTGCTCTCTGTGTTCTTCATG 60  
Qy 144 AAGAGTCAAGCATATTTCAACAGACTGGAGAACTGCCATGCCATTTTCAAACTCTCAA 203  
Db 61 AAGATTCAGCTTATTTCAATGAGACTGCGAGACTGCCATGCCAATTTGCAAACTCTCAA 120  
Qy 204 AACATAAGCTGATGAGCTGGTAGTATTTTGGCAGACACAGATAGCTGGTTCTGTAT 263  
Db 121 AACAAAGCTGAGTGAAGTATTTTGGCAGACCCAGGAAAATTTGGTTCTGTAAT 180  
Qy 264 GAGATATTCAGAGCAAGAGAACCTTCAAAATTTTCATCTCAAAATAGAGGCCCTGACA 323  
Db 181 GAGTATATCTAGGCAAGAGAAATTTGACAGTGTTCATTCAGATATATGGGCCACACA 240  
Qy 324 AGCTTTTCAAGGACCAACTGGACCTCGAGACTCCACAATGTTCCAGATCAAGCAAGGCC 383  
Db 241 AGTTTGTATTCGGACACTGGACCTCGAGACTTCCACAATCTTCAGATCAAGGACAGGCC 300  
Qy 384 ACATATCACTGTTTCATTCATATTAAGAGGCCCAAGGACTAGTTCCCATGCAACCAATG 443  
Db 301 TTGTATCAATGTATCATCCATCAAAAAGCCCAAGGAATGATTCGATCCACCAAGAT 360  
Qy 444 AGTTCTCACTATCAGGCTGTGCTAACTTCAGTCAACCTCAAAATAACAGTAATCTCTAAT 503  
Db 361 AATTCGAACTGTCAGTCTGTGCTAACTTCAGTCAACCTGAAATAGTACCAATTTCTAAT 420  
Qy 504 AGAACAGAAAATTTCTGGCATCATAAATTTGACCTGCTCATCTATACAGGTTTACCCAGAA 563

Db 421 ATAAACAGAAA---TGTGTACATAAAATTTGACCTGCTCATCTATACACGGTTACCCAGAA 477  
Qy 564 CCTAAGGAGATGATTTTTCAGCTAAACACCTGAGAAATTCAACTACTAAGTAGTACTGTC 623  
Db 478 CCTAAGGAGATGATGTTTGTCTAAGAACCAAGAAATTCAACTATCGAGTAGTATGATG 537  
Qy 624 ATGAAGAAATCTCAAAATTAATGTGACAGAACTGTACAAACGTTTCTATCAGCTTCCCTTT 683  
Db 538 ATGCAAGAAATCTCAAGATATATGTACAGAACTGTACGACGTTTCCATCAGCTTCTGTT 597  
Qy 684 TCAGTCCCTGAAG---CACACAATGTGAGCGTCTTTTGTGCCCTTGAAACTGGAGACACTG 740  
Db 598 TCATTCCCTGATGTTACGAGCAATATGACCATCTTCTGTATTTCTGGAACACTGACA---AG 654  
Qy 741 GAGATGCTGCTCTCCCTACCTTTCAATATAGATGCACAACTTAAGGATAAAGACCCCTGAA 800  
Db 655 ACGCGCTTTTATCTTCCACCTTCTCTATAG-----AGCTTGAGGACCCCTCAGCCCTCC 708  
Qy 801 CAAGGCCACTTCTCTGATTGCGCTGCTACTTGAATTTGTGTTTGTGTTTGTGGGATG 860  
Db 709 CGAGACCACTTCTTGGATTCAGCTGCTACTTCCACAGTTATATATGTGTGATGTT 768  
Qy 861 GTGCTCTTTAAACACATTAAGGAAAGGAAAGAGAGAGCTGGCCCTCTCATGAATGT 920  
Db 769 TTCTGCTAATTTCTATGGAATGGAAGAGAGAGCGGCTCGCACTTTATAAATGT 828  
Qy 921 GAAACCATCAAAAGGAGAGAAAGAGAGCAACAGACCAAGAAAGAGTACCATACCAC 980  
Db 829 GGAACCAACAATGGAGAGGAGAGAGTGAACAGACCAAGAAAGAGAAATCCAT 888  
Qy 981 GTACCTGAGAGATCTGATGAAGCCAGCTGTG---TTAAACATTTTGAAGACAGCTCAGGG 1037  
Db 889 ATACCTGAAAGTCTGATGAAGCCAGCGTCTTTTAAAGTTTGAAGACATCTTCATGC 948  
Qy 1038 GACAAAAATCA 1048  
Db 949 GACAAAAAGTGA 959

## RESULT 14

US-10-960-855-17  
; Sequence 17, Application US/10960855  
; GENERAL INFORMATION:  
; APPLICANT: ALBANI, SALVATORE  
; TITLE OF INVENTION: METHODS FOR ISOLATION, QUANTIFICATION, CHARACTERIZATION  
; TITLE OF INVENTION: AND MODULATION OF ANTIGEN-SPECIFIC T CELLS  
; FILE REFERENCE: AND-1001-CP2  
; CURRENT APPLICATION NUMBER: US/10/960,855  
; CURRENT FILING DATE: 2004-10-06  
; PRIOR APPLICATION NUMBER: 60/510,645  
; PRIOR FILING DATE: 2003-10-10  
; PRIOR APPLICATION NUMBER: 09/756,983  
; PRIOR FILING DATE: 2001-01-09  
; PRIOR APPLICATION NUMBER: 09/421,506  
; PRIOR FILING DATE: 1999-10-19  
; PRIOR APPLICATION NUMBER: PCT/US99/2466  
; PRIOR FILING DATE: 1999-10-19  
; PRIOR APPLICATION NUMBER: 60/105,018  
; PRIOR FILING DATE: 1998-10-20  
; NUMBER OF SEQ ID NOS: 24  
; SOFTWARE: Patentin Ver. 3.3  
; SEQ ID NO 17  
; LENGTH: 1056  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
; OTHER INFORMATION: fusion construct with human and bacterial  
; OTHER INFORMATION: sequences  
US-10-960-855-17

Query Match 39.8%; Score 429.6; DB 12; Length 1056;  
Best Local Similarity 79.3%; Pred. No. 2.5e-106;



Matches	549; Conservative	0; Mismatches	134; Indels	9; Gaps	3;
Qy	84	ATGGGACTGAGTCACACTCTCTTGTGATGGCCCTCCTGCTCTCTGTTCTTCCATG	143		
Db	1	ATGGGACTGAGTAACATTCTTCTTGTGATGGCCCTCCTGCTCTCTGTTCTTCCATG	60		
Qy	144	AAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGGCCATGCCATTTTACAACCTCTCAA	203		
Db	61	AAGATTTCAAGCTTATTTTCAATGAGACTGCGAGACTGCCATGCCAATTTGCAAACTCTCAA	120		
Qy	204	AACATAAGCCCTGGATGAGCTGTGTAGTATTTTGGCAGGACCAGGATAAGCTGGTTCTGTAT	263		
Db	121	AACAAAGCCCTGAGTGAGCTAGTAGTATTTTGGCAGGACCAGGAAAACCTTGGTTCTGAAAT	180		
Qy	264	GAGATATTTCAAGGCAAAAGAAACCCCTCAAAATGTTTCATCTCAAAATATAAGGCCCGTACA	323		
Db	181	GAGGTATCTTTAGGCAAAAGAAATTTGACAGTGTTCATTTCCAAGTATATGGGCCGACACA	240		
Qy	324	AGCTTTGCAAGGACAACTGGACCCCTGAGACTCCAACAATGTTCCAGTCAAGGACAAGGGC	383		
Db	241	AGTTTGTGATTCGGACAGTTGGACCCCTGAGACTTCACAATCTTCAGATCAAGGACAAGGGC	300		
Qy	384	ACATATCACCTGTTTCATTGATTAATAAGGCCCAAGGACTAGTTCCTCATGCAACAAATG	443		
Db	301	TTGTATCAATGTGTATCATCCATCAAAAGGCCCAAGGAAATGATTCGCATCCACCAAGATG	360		
Qy	444	AGTTCTGACCTATTCAGTGCCTTGCTTAACCTTCAGTCAACCTGAAATAACAGTAACTCTTAAT	503		
Db	361	AATTCGAACTGTCAGTGCCTTGCTTAACCTTCAGTCAACCTGAAATAGTACCAATTTCTAAT	420		
Qy	504	AGAACAGAAATTTCTGGCATCATAAATTTTGACCTGCTCATCTATACAAGGTTACCCAGAA	563		
Db	421	ATAACAGAAAA---TGTGTACATAAATTTGACCTGCTCATCTATACAAGGTTACCCAGAA	477		
Qy	564	CCTAAGGAGATGTATTTTCAGCTAAACACATGAGAAATTCAACTAAGTATAGTACTGTC	623		
Db	478	CCTAAGAAGATGATGTGTTTGTCTAAGAACCAGAAATTCAACTATCGAGTATGATGTATT	537		
Qy	624	ATGAAGAAATCTCAAAATATATGTCAGAGACTGTACAAAGTTTCTATACAGTTGCTTTT	683		
Db	538	ATGCAGAAATCTCAAGATATATGTCAGAACTGTACAGAGTTTCCATCAGTTGTCTGTT	597		
Qy	684	TCAGTCCCTGGAAG---CACACAATGTGAGCGTCTTTTGTGCCCTGAAACTGGAGACACTG	740		
Db	598	TCATTCCTCGATGTACGAGCAATATGACCATCTTCTGTATCTCGAAGACTGACA---AG	654		
Qy	741	GAGATGCTGCTCTCCCTACCTTTCAATATAGA	772		
Db	655	ACCGCGCTTTTATCTTTCACCTTTCTCTATAGA	686		

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RESULT 15
US-60-680-544-17478
; Sequence 17478, Application US/60680544
; GENERAL INFORMATION:
; APPLICANT: Cooper, Matthew
; APPLICANT: Kinch, Deborah
; APPLICANT: Rosenberg, Michael
; APPLICANT: Subramaniam, S. Sai
; APPLICANT: Szak, Suzanne
; APPLICANT: Li, Huo
; APPLICANT: Bandaru, Raj
; APPLICANT: Darbel, Maher
; TITLE OF INVENTION: Nucleotide Array Containing Polynucleotide Probes Complementary to
; TITLE OF INVENTION: Fragments of, Cynomolgus Monkey Genes and the Use Thereof
; FILE REFERENCE: 2159209000
; CURRENT APPLICATION NUMBER: US/60/680,544
; CURRENT FILING DATE: 2005-05-13
; NUMBER OF SEQ ID NOS: 48714
; SOFTWARE: Patent Sequence Analysis Tool Version 1.0
; SEQ ID NO 17478
; LENGTH: 754
; TYPE: DNA

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Query Match		32.5%	Score 351.4	DB 25	Length 754
Best Local Similarity		71.1%	Pred. No. 4.9e-85		
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				Indels	19
				Gaps	5
Qy	290	TCAAATGTTTCATCTCAAATATATAGGGCCGTCACAGCTTTGACAAAGACCAACTGGACCCCT	349		
Db	6	TGACAGCGTTTCATTCCCAAGTATATGGCCGCGCAAGTTTTGATCCGAGAGTTTGGACCCCT	65		
Qy	350	GAGACTCCACAAATGTTTCAGATCAAGGACAGGSCACATATCACTGTTTCATTCATTATATAA	409		
Db	66	GAGCTTTCACACCTTCAGATCAAGGACAGGSCCTTGTATCAATGATATATCCACACAA	125		
Qy	410	AGGGCCCAAGGACTAGTTCCCATGACCAAAATGAGTTCTGACCTATCAAGTCTGCTTAA	469		
Db	126	AAGGCCCAAGGAATGATCCGATCCACCAGATGAATCTGAACTGTCAGTCTTCTCTAA	185		
Qy	470	CTTCAGTCAACCTGAAATATACAGTAATCTTAATAGAACAGAAAATCTGGCATCATATAA	529		
Db	186	CTTCAGTCAACCTGAAATATAGTCCCAATTTCTAATAACAGAAAA---TATGTACATATAA	242		
Qy	530	TTTGACCTGCTCATCTATACAAGGTTTACCAGAACCTAAGGAGATGATTTTTCAGTGATAA	589		
Db	243	TTTGACCTGCTCATCTATACACGGTTTACCAGAACCTGAGAAATGAGTGTTTGTCTTAAG	302		
Qy	590	CACGTGAGATTTCAACTACTAAGTATGATATCTGTTCATGAGAAATCTCAAAATATATGTAC	649		
Db	303	AACCAAGATTTCAACTATCGAGTATGATGTTGTTATGACAGAAATCTCAAGATATATGTAC	362		
Qy	650	AGAACTGTGACAGTTTCTATACAGTTTGCCTTTTTTCAGTCCCTGTAAG---CACACAATGT	706		
Db	363	AGAACTGTGACAGGTTTCCATCAGCTTGTCTGTTTTCATTTCCCTGATGTTACGAGCAACAT	422		
Qy	707	GAGCGTCTTTTGGCCCTGAAACTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTTCAA	766		
Db	423	GACCATCTTCTGTGTTCTGGAAACTGACA---AGACACAGCTTTTATCTCCTCCTTTCTC	479		
Qy	767	TATAGATGACACAACTTAAGGATAAAGACCCCTGAAACAGGCCACTTCTCTCGGATTCGGC	826		
Db	480	TATAG-----AGCTTGGAGACCCCTCAGCTCCCGCCAGACCAACATCCCTTGGATTACAGC	533		
Qy	827	TGTACTTGTATATGTTTGTGTTTGTGTTTGTGGATGTTGTTCTTTTAAACACTAAGGAAAAG	886		
Db	534	TGTACTTCCACAGTTATTATATGTGTGATGGCTTTCTCTCTAAATTTCTATGGAATATGAA	593		
Qy	887	GAAGAAGACGACCTGGGCCCTCTCATGAATGTGAAACCATCAAAAGGAGAGAAAAGA	946		
Db	594	GAAGAAGACGACCTCGCAACTTTTAAATGTGGAAACCAACAACTGGAGAGGAGAA	653		
Qy	947	GAGCAACACGACCAACGAAAGAGTACCATACACGCTACCTGAGAGATCTGTATGAAGCCC-	1005		
Db	654	GAGTGAACGACCAACAAAAGAGAAAAAATTAATGTACCTGAAAGATCTGATGAAGCCCC	713		
Qy	1006	---AGTGTGTTAATCTTTGAAGACAGCCTCAGGGGACAAA	1043		
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Search completed: August 20, 2005, 12:12:48  
Job time : 1831 secs

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GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: August 17, 2005, 18:49:39 ; Search time 23 Seconds  
(without alignments)  
1067.806 Million cell updates/sec

Title: US-09-303-510-6

Perfect score: 1737

Sequence: 1 MGICDSTMGSLTLLVALL.....RSDEAQCYNILKTASGDKNQ 329

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:\*

- 1: /cgn2\_6/prodata/1/iaa/5A\_COMB.pep.\*
- 2: /cgn2\_6/prodata/1/iaa/5B\_COMB.pep.\*
- 3: /cgn2\_6/prodata/1/iaa/6A\_COMB.pep.\*
- 4: /cgn2\_6/prodata/1/iaa/6B\_COMB.pep.\*
- 5: /cgn2\_6/prodata/1/iaa/PCTUS\_COMB.pep.\*
- 6: /cgn2\_6/prodata/1/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1737	100.0	329	4	US-09-651-200-18
2	1737	100.0	329	4	US-09-303-040-6
3	1372	79.0	329	4	US-09-651-200-19
4	1157	66.6	325	4	US-09-651-200-20
5	932	53.7	372	4	US-09-949-016-11132
6	903	52.0	329	2	US-08-456-104-2
7	903	52.0	329	2	US-08-101-624-2
8	903	52.0	329	3	US-08-479-744A-2
9	903	52.0	329	3	US-08-280-757B-2
10	903	52.0	329	3	US-08-205-697A-23
11	903	52.0	329	3	US-08-702-525-23
12	903	52.0	329	3	US-08-403-253A-4
13	903	52.0	329	4	US-08-435-816A-4
14	903	52.0	329	4	US-09-425-762-2
15	903	52.0	329	4	US-09-837-867A-23
16	903	52.0	329	4	US-09-206-132-2
17	903	52.0	329	4	US-09-441-411-26
18	903	52.0	329	4	US-09-425-516-2
19	903	52.0	329	5	PCT-US95-02576-23
20	900	51.8	329	4	US-09-667-135-32
21	898	51.7	323	4	US-09-651-200-21
22	898	51.7	323	4	US-09-441-411-22
23	898	51.7	323	5	PCT-US94-09642-2
24	894.5	51.5	324	4	US-09-910-174B-6
25	894.5	51.5	324	4	US-09-620-461-6
26	746.5	43.0	351	4	US-09-756-983-18
27	682.5	39.3	218	4	US-09-451-291-12

28	643.5	37.0	356	4	US-09-441-411-11	Sequence 11, Appl
29	643.5	37.0	356	4	US-09-441-411-12	Sequence 12, Appl
30	643.5	37.0	356	4	US-09-441-411-16	Sequence 16, Appl
31	643.5	37.0	356	4	US-09-441-411-17	Sequence 17, Appl
32	640.5	36.9	309	2	US-08-456-104-4	Sequence 4, Appl
33	640.5	36.9	309	3	US-08-479-744A-23	Sequence 23, Appl
34	640.5	36.9	309	3	US-08-280-757B-23	Sequence 23, Appl
35	640.5	36.9	309	3	US-08-205-697A-21	Sequence 21, Appl
36	640.5	36.9	309	3	US-08-702-525-21	Sequence 21, Appl
37	640.5	36.9	309	4	US-09-651-200-22	Sequence 22, Appl
38	640.5	36.9	309	4	US-09-667-135-33	Sequence 33, Appl
39	640.5	36.9	309	4	US-09-425-762-23	Sequence 23, Appl
40	640.5	36.9	309	4	US-09-837-867A-21	Sequence 21, Appl
41	640.5	36.9	309	4	US-09-206-132-4	Sequence 4, Appl
42	640.5	36.9	309	4	US-09-441-411-13	Sequence 13, Appl
43	640.5	36.9	309	4	US-09-441-411-18	Sequence 18, Appl
44	640.5	36.9	309	4	US-09-441-411-24	Sequence 24, Appl
45	640.5	36.9	309	4	US-09-425-516-23	Sequence 23, Appl

ALIGNMENTS

RESULT 1

US-09-651-200-18  
; Sequence 18, Application US/09651200  
; Patent No. 6429303  
; GENERAL INFORMATION:  
; APPLICANT: Green et al  
; TITLE OF INVENTION: Polynucleotides Encoding Members of the Human B  
; TITLE OF INVENTION: Lymphocyte Activation Antigen B-7 Family and  
; TITLE OF INVENTION: Polypeptides Encoded Thereby  
; FILE REFERENCE: 15966-562 (CURA-62)  
; CURRENT APPLICATION NUMBER: US/09/651,200  
; PRIORITY FILING DATE: 2000-08-30  
; PRIOR APPLICATION NUMBER: 60/152383  
; PRIOR FILING DATE: 1999-09-03  
; PRIOR APPLICATION NUMBER: 60/172909  
; PRIOR FILING DATE: 1999-12-21  
; PRIOR APPLICATION NUMBER: 60/183578  
; PRIOR FILING DATE: 2000-02-18  
; NUMBER OF SEQ ID NOS: 25  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 18  
; LENGTH: 329  
; TYPE: PRT  
; ORGANISM: Felis catus  
US-09-651-200-18

Query Match	100.0%	Score 1737;	DB 4;	Length 329;
Best Local Similarity	100.0%	Pred. No. 2.5e-168;	Mismatches 0;	Indels 0; Gaps 0;
Matches 329;	Conservative 0;			
Qy	1	MGICDSTMGSLTLLVALLSGVSMKSOAYFNKTGELPCHFTNSQNSLDELVVFWQD	60	
Db	1	MGICDSTMGSLTLLVALLSGVSMKSOAYFNKTGELPCHFTNSQNSLDELVVFWQD	60	
Qy	61	QDKLVLYEIFRGENPQNVHLKYKRTSPDKDNTLRLHNVOIKKGTGTHCHYKPGK	120	
Db	61	QDKLVLYEIFRGENPQNVHLKYKRTSPDKDNTLRLHNVOIKKGTGTHCHYKPGK	120	
Qy	121	LVPHQMSDDLVLANFSQPEITVTNSRTENSIGIINLTCSSTGGYPEPKEMYFQNTENS	180	
Db	121	LVPHQMSDDLVLANFSQPEITVTNSRTENSIGIINLTCSSTGGYPEPKEMYFQNTENS	180	
Qy	181	TTKYDTVMKKSNNVTLYNVSISLPFSVPEAHNVSVFCAKLETLEMLLSLPFNIDAOP	240	
Db	181	TTKYDTVMKKSNNVTLYNVSISLPFSVPEAHNVSVFCAKLETLEMLLSLPFNIDAOP	240	
Qy	241	KDKPEQGHFLIAAVALVNVFVCGVFKTLRKKKKQPGPSHBCETIKRERKSKQTN	300	
Db	241	KDKPEQGHFLIAAVALVNVFVCGVFKTLRKKKKQPGPSHBCETIKRERKSKQTN	300	

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QY 301 ERVPYHVPERSDEAQCWNILKTASGDKNQ 329
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Db 301 ERVPYHVPERSDEAQCWNILKTASGDKNQ 329

RESULT 2
US-09-303-040-6
; Sequence 6, Application US/09303040
; Patent No. 655671
; GENERAL INFORMATION:
; APPLICANT: Winslow, Barbara J.
; TITLE OF INVENTION: Recombinant Virus Expressing Foreign DNA Encoding
; TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CD28, Feline CTLA-4 or
; TITLE OF INVENTION: Feline Interferon-gamma And Uses Thereof
; FILE REFERENCE: 54957-B
; CURRENT APPLICATION NUMBER: US/09/303,040
; CURRENT FILING DATE: 1999-04-30
; EARLIER APPLICATION NUMBER: 60/083,870
; EARLIER FILING DATE: 1998-05-01
; NUMBER OF SEQ ID NOS: 82
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 6
; LENGTH: 329
; TYPE: PRT
; ORGANISM: feline CD86
US-09-303-040-6

Query Match 100.0%; Score 1737; DB 4; Length 329;
Best Local Similarity 100.0%; Pred. No. 2.5e-168;
Matches 329; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGICDSTMGSLHTLLVMALLLSGVSSMKSQAYFNKTGELPCHFTNSQNSISLDELVVFWD 60
Db 1 MGICDSTMGSLHTLLVMALLLSGVSSMKSQAYFNKTGELPCHFTNSQNSISLDELVVFWD 60

QY 61 QDKLVLYEYIFRGKENPONVHLKYKRTSFDKDNWTLRLHNVOIKDGYHCFIHYKGP 120
Db 61 QDKLVLYEYIFRGKENPONVHLKYKRTSFDKDNWTLRLHNVOIKDGYHCFIHYKGP 120

QY 121 LVPMHQMSDLVLNFSQPEITVTSNRTENSGIINLTCSISIQYPEPEKMYFQNTENS 180
Db 121 LVPMHQMSDLVLNFSQPEITVTSNRTENSGIINLTCSISIQYPEPEKMYFQNTENS 180

QY 181 TTKYDTVMKSSQNNVTLYNVSISLPSFVPEAHNVSVFCAKLETLMLLSLPFNIDAQ 240
Db 181 TTKYDTVMKSSQNNVTLYNVSISLPSFVPEAHNVSVFCAKLETLMLLSLPFNIDAQ 240

QY 241 KDKDPQGHFLMTAAVLNMFVFCGMVSFVKTLRKKKQPGSPSHECETIKRERKESKQTN 300
Db 241 KDKDPQGHFLMTAAVLNMFVFCGMVSFVKTLRKKKQPGSPSHECETIKRERKESKQTN 300

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Db 301 ERVPYHVPERSDEAQCWNILKTASGDKNQ 329

RESULT 3
US-09-651-200-19
; Sequence 19, Application US/09651200
; Patent No. 6429303
; GENERAL INFORMATION:
; APPLICANT: Green et al
; TITLE OF INVENTION: Polynucleotides Encoding Members of the Human B
; TITLE OF INVENTION: Lymphocyte Activation Antigen B-7 Family and
; TITLE OF INVENTION: Polypeptides Encoded Thereby
; FILE REFERENCE: 15966-562 (CURA-62)
; CURRENT APPLICATION NUMBER: US/09/651,200
; CURRENT FILING DATE: 2000-08-30
; PRIOR APPLICATION NUMBER: 60/152383
; PRIOR FILING DATE: 1999-09-03
; PRIOR APPLICATION NUMBER: 60/172909
; PRIOR FILING DATE: 1999-12-21
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 20
; LENGTH: 325
; TYPE: PRT
; ORGANISM: sus sp.
US-09-651-200-20

Query Match 66.6%; Score 1157; DB 4; Length 325;
Best Local Similarity 70.1%; Pred. No. 2.9e-109;
Matches 227; Conservative 35; Mismatches 56; Indels 6; Gaps 5;

QY 8 MGLSHTLLVMALLLSGVSSMKSQAYFNKTGELPCHFTNSQNSISLDELVVFWDQDKLVLY 67
Db 1 MGLSHTLLVMALLLSGVSSMKSQAYFNKTGELPCHFTNSQNSISLDELVVFWDQDKLVLY 67
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; PRIOR APPLICATION NUMBER: 60/183578
; PRIOR FILING DATE: 2000-02-18
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 19
; LENGTH: 329
; TYPE: PRT
; ORGANISM: Canis familiaris
US-09-651-200-19

Query Match 79.0%; Score 1372; DB 4; Length 329;
Best Local Similarity 81.7%; Pred. No. 3.7e-131;
Matches 263; Conservative 22; Mismatches 35; Indels 2; Gaps 2;

QY 7 TMGLSHTLLVMALLLSGVSSMKSQAYFNKTGELPCHFTNSQNSISLDELVVFWDQDKLVLY 66
Db 6 TMELNNILFVMTLLLYGAASMKSQAYFNKTGELPCHFTNSQNSISLDELVVFWDQDKLVLY 65

QY 67 YEIFRGKENPONVHLKYKRTSFDKDNWTLRLHNVOIKDGYHCFIHYKGPGLVPMHQ 126
Db 66 YELYRGKENPONVHRKYKRTSFDKDNWTLRLHNVOIKDGLYQCFVHHKGPGLVPMHQ 125

QY 127 MSSDLVLNFSQPEITVTSNRTENSGIINLTCSISIQYPEPEKMYFQNTENSTTKYDT 186
Db 126 MNSDLVLNFSQPEIMVTNSNRTENSGIINLTCSISIQYPEPEKMYFLVKTENSTTKYDT 185

QY 187 VMKSSQNNVTLYNVSISLPSFVPEAHNVSVFCAKLETLMLLSLPFNIDAQPKDPE 246
Db 186 VMKSSQNNVTLYNVSISLPSFVPEAHNVSVFCAKLETLMLLSLPFNIDAHTK-PTPD 243

QY 247 QGHFLMTAAVLNMFVFCGMVSFVKTLRKKKQPGSPSHECETIKRERKESKOTNERVPYH 306
Db 244 GDHLWIAALLVMVLVILGMVFFTLRLRKKKQPGSPSHECETIKRERKESQTKERVYH 303

QY 307 VPERSDEAQCWNILKTASGDKN 328
Db 304 ETERSDEAQCWNISKTAGDNS 325
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## RESULT 4

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US-09-651-200-20
; Sequence 20, Application US/09651200
; Patent No. 6429303
; GENERAL INFORMATION:
; APPLICANT: Green et al
; TITLE OF INVENTION: Polynucleotides Encoding Members of the Human B
; TITLE OF INVENTION: Lymphocyte Activation Antigen B-7 Family and
; TITLE OF INVENTION: Polypeptides Encoded Thereby
; FILE REFERENCE: 15966-562 (CURA-62)
; CURRENT APPLICATION NUMBER: US/09/651,200
; CURRENT FILING DATE: 2000-08-30
; PRIOR APPLICATION NUMBER: 60/152383
; PRIOR FILING DATE: 1999-09-03
; PRIOR APPLICATION NUMBER: 60/172909
; PRIOR FILING DATE: 1999-12-21
; PRIOR APPLICATION NUMBER: 60/183578
; PRIOR FILING DATE: 2000-02-18
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 20
; LENGTH: 325
; TYPE: PRT
; ORGANISM: sus sp.
US-09-651-200-20

Query Match 66.6%; Score 1157; DB 4; Length 325;
Best Local Similarity 70.1%; Pred. No. 2.9e-109;
Matches 227; Conservative 35; Mismatches 56; Indels 6; Gaps 5;

QY 8 MGLSHTLLVMALLLSGVSSMKSQAYFNKTGELPCHFTNSQNSISLDELVVFWDQDKLVLY 67
Db 1 MGLSHTLLVMALLLSGVSSMKSQAYFNKTGELPCHFTNSQNSISLDELVVFWDQDKLVLY 67
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QY 68 EIPRGKENPONVHLKYKGRTSFQKDNWTLRLHNVQIKDGYHCFHYHKGPKGLVPMHQ 127  
Db 61 ELYRGOEKPHNVSKYMGRTSFDQATWTLRLHNVQIKDGYHCFHYHKGPKGLVPMHQ 120  
QY 128 SSDLSVLNFSQPEITVTSNRNTSGIINLTCSIOGYPEPKMYFQLTENSTTKYDIV 187  
Db 121 SSDLSVLNFSQPEITVTSNRNTSGIINLTCSIOGYPEPKMYFQLTENSTTKYDIV 179  
QY 188 MKSQNNVTLYNVSISLPSFVPEAHNVSVFCALKLETLEMLL-SLPFNIDAQPKDQPE 246  
Db 180 MKSQNNVTLYNVSISLPSFVPEAHNVSVFCALKLETLEMLL-SLPFNIDAQPKDQPE 239  
QY 247 QGHFLMIAAVLMVFCGMSFKTLRKKKQKQPSHEC-ETIKERKESKOTNERVPY 305  
Db 240 PDHILMIAALLVTVVWVCGMSFKTLRKKKQKQPSHEC-ETIKERKESKOTNERVPY 299  
QY 306 HYPERSDEAQC-VNILKTASGDKN 328  
Db 300 H-ERSDDAQC-VNILKTASGDKN 321

## RESULT 5

US-09-949-016-11132  
; Sequence 11132, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CLO01307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FASTSEQ for Windows Version 4.0  
; SEQ ID NO 11132  
; LENGTH: 372  
; TYPE: PRT  
; ORGANISM: Human  
US-09-949-016-11132

Query Match 53.7%; Score 932; DB 4; Length 372;  
Best Local Similarity 59.1%; Pred. No. 2.9e-86;  
Matches 195; Conservative 44; Mismatches 83; Indels 8; Gaps 7;  
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Db 44 GICDSTWGLSHTLLVMALLSGVSSMKSQAYFNKTGELPCHFTNSQNSISLDELVFWQDQ 103  
QY 62 DKVLVYEIRFGKENPONVHLKYKGRTSFQKDNWTLRLHNVQIKDGYHCFHYHKGPKGL 121  
Db 104 ENLVNEVLGKEKFDPSVHSGYMGRTSFDSDSWTLRLHNVQIKDGYHCFHYHKGPKGL 163  
QY 122 VPMQSSDLSVLNFSQPEITVTSNRNTSGIINLTCSIOGYPEPKMYFQLTENST 181  
Db 164 IRIHQNSLSVLNFSQPEITVTSNRNTSGIINLTCSIOGYPEPKMYFQLTENST 222  
QY 182 TKYDVTMKSQNNVTLYNVSISLPSFVPEAHNVSVFCALKLETLEMLL-SLPFNIDAQ 240  
Db 223 IEYDGMQSQNNVTLYNVSISLPSFVPEAHNVSVFCALKLETLEMLL-SLPFNIDAQ 280  
QY 241 KDDPEQGHFLMIAAVLMVFCGMSFKTLRKKKQKQPSHEC-ETIKERKESKOTNERVP 299  
Db 281 -DQPPDPHPIWTAVLPT-VIICVMVFCILMKKKKPRNSYKCGTNTWERESEQT 338  
QY 300 NERVPHYHYPERSDEAQC-VNILKTASGDKN 328  
Db 339 KKEKTHIPERSDEAQC-VNILKTASGDKN 328

## RESULT 6

US-08-456-104-2  
; Sequence 2, Application US/08456104  
; Patent No. 5861310  
; GENERAL INFORMATION:  
; APPLICANT: Freeman, Gordon J.  
; APPLICANT: Nadler, Lee M.  
; APPLICANT: Gray, Gary S.  
; TITLE OF INVENTION: TUMOR CELLS MODIFIED TO EXPRESS B7-2 AND B7-3 WITH INCREASED  
; NUMBER OF SEQUENCES: 8  
; CORRESPONDENCE ADDRESS:  
; ADDRESS: LAHIVE & COCKFIELD  
; STREET: 60 State Street, Suite 510  
; CITY: Boston  
; STATE: Massachusetts  
; COUNTRY: USA  
; ZIP: 02109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/456,104  
; FILING DATE:  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/101,624;  
; FILING DATE: 26-JUL-1993;  
; APPLICATION NUMBER: 08/109,393;  
; APPLICATION NUMBER: 19-AUG-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Mandragouras, Amy E.  
; REGISTRATION NUMBER: 36,207  
; REFERENCE/DOCKET NUMBER: RPI-008  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617) 227-7400  
; TELEFAX: (617) 227-5941  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 329 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-456-104-2

Query Match 52.0%; Score 903; DB 2; Length 329;  
Best Local Similarity 58.5%; Pred. No. 2.1e-83;  
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;  
QY 7 TWGLSHTLLVMALLSGVSSMKSQAYFNKTGELPCHFTNSQNSISLDELVFWQDQDKLVL 66  
Db 6 TWGLSHTLLVMALLSGVSSMKSQAYFNKTGELPCHFTNSQNSISLDELVFWQDQDKLVL 65  
QY 67 YEIFRGKENPONVHLKYKGRTSFQKDNWTLRLHNVQIKDGYHCFHYHKGPKGLVPMHQ 126  
Db 66 NEVLGKEKFDPSVHSGYMGRTSFDSDSWTLRLHNVQIKDGYHCFHYHKGPKGLVPMHQ 125  
QY 127 MSQSSDLSVLNFSQPEITVTSNRNTSGIINLTCSIOGYPEPKMYFQLTENSTTKYDT 186  
Db 126 MSQSSDLSVLNFSQPEITVTSNRNTSGIINLTCSIOGYPEPKMYFQLTENSTTKYDT 184  
QY 187 VMKQSQNNVTLYNVSISLPSFVPEAHNVSVFCALKLETLEMLL-SLPFNIDAQPKDQ 245  
Db 185 IMQSQNNVTLYNVSISLPSFVPEAHNVSVFCALKLETLEMLL-SLPFNIDAQPKDQ 241  
QY 246 EOGHFLMIAAVLMVFCGMSFKTLRKKKQKQPSHEC-ETIKERKESKOTNERVP 304  
Db 242 PPDHPIWTAVLPT-VIICVMVFCILMKKKKPRNSYKCGTNTWERESEQT 300  
QY 305 YHYPERSDEAQC-VNILKTASGDKN 328

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Db
301 IHIPERSDEAQRVFKSSKTSSCDKS 325
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RESULT 7
US-08-101-624-2
; Sequence 2, Application US/08101624
; Patent No. 5942607
; GENERAL INFORMATION:
; APPLICANT: Freeman, Gordon J.
; APPLICANT: Nadler, Lee M.
; APPLICANT: Gray, Gary S.
; TITLE OF INVENTION: No. 5942607el CTLLA4/CD28 Ligands and
; TITLE OF INVENTION: Uses Therefor
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 State Street, Suite 510
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/101,624
; FILING DATE: 26-JUL-1993
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Mandragouras, Amy E.
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: RPI-004
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 329 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-101-624-2

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Query Match	52.0%;	Score 903;	DB 2;	Length 329;
Best Local Similarity	58.5%;	Pred. No. 2.1e-83;		
Matches 190;	Conservative 44;	Mismatches 83;	Indels 8;	Gaps 7;
Qy	7	TMGLSHLTLLVMALLLSGVSSMKSQAYFNKTCGELPCHEFTNSQNI	SLDELVFWQDQDKLVL	66
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Db	6	TMGLSNILFYMAFLLSGAAPLKIQAYFNETADLLPCQFANSQNSLSELVFWQDQENLVL	65	
		: : : : :		
Qy	67	YEIFRGKENPONVHLKYKGRTPSKDNWTLRLHNVOIKDKGYHCIFYHKGPGLVPMHQ	126	
		: : : : :		
Db	66	NEVYLGEKEFDSVHSKYMGRTPSFDSWTLRLHNLQIKDKGLYQCIHHKTKPTGMIRIHQ	125	
		: : : : :		
Qy	127	MSSDLSVLANSQPEITVTSNRTNSGIIINLTCSIIQGYPPKMYFQIINTENSTTKYDT	186	
		: : : : :		
Db	126	MNSELSVLANFSQPEIPIPSINITENV-YINLTCSIIHGYPPKMSVLLRRTKNSITIEYDG	184	
		: : : : :		
Qy	187	VMKSONNVTELYNVSISLPSVPE-AHNVSVFCAALKLETILEMLLSLPFNIDAQPKKDP	245	
		: : : : :		
Db	185	IMQKSDQNVTELYDVSLSLSVFPDVTSNMTIFCILETDKTR-LUSSPFSIELE--DRQP	241	
		: : : : :		
Qy	246	EQGHFLIAAVLVNMFVFCGMVSPFKTLRK-RKKQKQPGSHSECETIKRKESKQTNRVP	304	
		: : : : :		
Db	242	PPDHIPWITAVLPV-VIIICVMVFCLIIWKWKKKRPNSYKCGNTIMREBSQTKKREK	300	
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Qy 305 YHVPERSDEAQCVC-NILKTASGDKN 328
Db 301 IHIPERSDEAQRVFKSKTSSCDKS 325

RESULT 8
US-08-479-744A-2
; Sequence 2, Application US/08479744A
; Patent No. 6084067
; GENERAL INFORMATION:
; APPLICANT: Freeman, Gordon J.
; APPLICANT: Nadler, Lee M.
; APPLICANT: Gray, Gary S.
; TITLE OF INVENTION: No. 6084067el CTLA4/CD28 Ligands and
; TITLE OF INVENTION: Uses Therefor
; NUMBER OF SEQUENCES: 55
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD, LLP
; STREET: 60 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/479,744A
; FILING DATE: June 7, 1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/280,757
; FILING DATE: 26-JUL-1994
; APPLICATION NUMBER: 08/109,393
; FILING DATE: 28-AUG-1993
; APPLICATION NUMBER: 08/101,624
; FILING DATE: 26-JULY-1993
; APPLICATION NUMBER: 08/147,773
; FILING DATE: 3-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Mandragouras, Amy E.
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: RPI-004CP3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 329 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-479-744A-2

Query Match 52.0%; Score 903; DB 3: Length 32
Best Local Similarity 58.5%; Pred. No. 2.le-83;
Matches 190; Conservative 44; Mismatches 83; Indels

Qy 7 TMGLSHLLVYMLLLSGVSMKSYQAYFNKTGELPCHFTNSQNSLDEL
Db 6 TMGLSNILFWYLLSGAAPLKIQAYFNETADLPQCFANSONQSLSEL
Qy 67 YEIFRGKENQNVHLKYKGRSTSPDKNWLRLHNVQIKKGTGTHCHIH
Db 66 NEVYLKGEKEDSVHSYKMGRTSPFSDSWTLRLHNLQIKKGLYQCIIH
Qy 127 MSSDLVLANFNSOPEITVTSNRRTENSGINLTCSSTGGYPERKEMVFO
Db 126 NMSELSVLANFNSOPEIIVPSNITENV-YINLTCSSTHGTPPEPKMNSVL
Qy 187 VMKKSQNNVTENVYNSISLFFSVPE-AHNVSVFCAKLETLEMLLSLQ

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Db 185 IMKSDNVTLYDVSLVSVFDPVTSNMNIFCILETDKTR--LLSSPFSIELE--DPOQ 241  
QY 246 EOGHFLWIAAVLVMFVFCGMVGFKTLRK--KKKQPGPSHECETIKRKESKQTNVERVP 304  
Db 242 PPDHIPWITAVLPT-VIICVMVFCILWKKKKRPNRSYKCGTNTWREESQTKKREK 300  
QY 305 YHVPERSDEAQCVC-NILKTASGDKN 328  
Db 301 IHIPERSDEAQRVFKSKTSKSSCDKS 325

## RESULT 9

US-08-280-757B-2  
; Sequence 2, Application US/08280757B  
; Patent No. 6130316  
; GENERAL INFORMATION:  
; APPLICANT: Freeman, Gordon J.  
; APPLICANT: Nadler, Lee M.  
; APPLICANT: Gray, Gary S.  
; APPLICANT: Greenfield, Edward  
; TITLE OF INVENTION: No. 6130316el CTLLA4/CD28 Ligands and  
; TITLE OF INVENTION: Uses Therefor  
; NUMBER OF SEQUENCES: 53  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: LAHIVE & COCKFIELD  
; STREET: 60 State Street, Suite 510  
; CITY: Boston  
; STATE: Massachusetts  
; COUNTRY: USA  
; ZIP: 02109

COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/280,757B  
; FILING DATE: 26-JUL-1994  
; CLASSIFICATION: 435

PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/101,624  
; FILING DATE: 26-JULY-1993  
; APPLICATION NUMBER: 08/109,393  
; FILING DATE: 19-AUG-1993  
; APPLICATION NUMBER: 08/147,773  
; FILING DATE: 3-NOV-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Mandragouras, Amy E.  
; REGISTRATION NUMBER: 36,207  
; REFERENCE/DOCKET NUMBER: RPI-004CP2  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617) 227-7400  
; TELEFAX: (617) 227-5941  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 329 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein

US-08-280-757B-2

Query Match 52.0%; Score 903; DB 3; Length 329;  
Best Local Similarity 58.5%; Pred. No. 2.1e-83;  
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;

QY 7 TMDLSHTLLVMAALLSGVSMKSOAYFNKTGBLPCFHTNSQNSLDELVVFVWQDQKVL 66  
Db 6 TMGLSNILFWAFLLSGAAPLKIQAYFNETADLPCCOFANSQNSLSLDELVVFVWQDQENLVL 65  
QY 67 YEIFRGKENPQNVHLKYKGTSTFDKDNWTLRLHNVOIKDGYHCFIHYKGPGLVPMHQ 126  
Db 66 NEVYLKKEKFDSDVHSKYMGRSTFSDSWTLRLHNLQIKDKGLYQCIIHHKPTGMIRIHQ 125

QY 127 MSSDLSVLANFSQPEITVTSNRTENSIGIINLTCSISIQGYPEPEKMYFQLTNENSTTKYDT 186  
Db 126 MNSELVLANFSQPEIPVPSINITENV-YINLTCSISIHGYPEPKKMSVLLRTRKNSTIETDYG 184  
QY 187 VMKKSQNVVTLYNYSISLPSFVPE-AHNVSVFCALKLETLEMLSLPNIDAQPKDKP 245  
Db 185 IMKSDNVTLYDVSLVSVFDPVTSNMNIFCILETDKTR--LLSSPFSIELE--DPOQ 241  
QY 246 EOGHFLWIAAVLVMFVFCGMVGFKTLRK--KKKQPGPSHECETIKRKESKQTNVERVP 304  
Db 242 PPDHIPWITAVLPT-VIICVMVFCILWKKKKRPNRSYKCGTNTWREESQTKKREK 300  
QY 305 YHVPERSDEAQCVC-NILKTASGDKN 328  
Db 301 IHIPERSDEAQRVFKSKTSKSSCDKS 325

## RESULT 10

US-08-205-697A-23  
; Sequence 23, Application US/08205697A  
; Patent No. 6218510  
; GENERAL INFORMATION:  
; APPLICANT: Sharpe, Arlene H.  
; APPLICANT: Borriello, Francescopaulo  
; APPLICANT: Freeman, Gordon J.  
; APPLICANT: Nadler, Lee M.  
; TITLE OF INVENTION: No. 6218510el Forms of T Cell Costimulatory Molecules  
; TITLE OF INVENTION: and Uses Therefor  
; NUMBER OF SEQUENCES: 61  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: LAHIVE & COCKFIELD  
; STREET: 60 State Street, suite 510  
; CITY: Boston  
; STATE: Massachusetts  
; COUNTRY: USA  
; ZIP: 02109-1875

COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: ASCII Text  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/205,697A  
; FILING DATE: 02-Mar-1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Mandragouras, Amy E.  
; REGISTRATION NUMBER: 36,207  
; REFERENCE/DOCKET NUMBER: BWI-120  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617) 227-7400  
; TELEFAX: (617) 227-5941  
; INFORMATION FOR SEQ ID NO: 23:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 329 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein

US-08-205-697A-23

Query Match 52.0%; Score 903; DB 3; Length 329;  
Best Local Similarity 58.5%; Pred. No. 2.1e-83;  
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;

QY 7 TMDLSHTLLVMAALLSGVSMKSOAYFNKTGBLPCFHTNSQNSLDELVVFVWQDQKVL 66  
Db 6 TMGLSNILFWAFLLSGAAPLKIQAYFNETADLPCCOFANSQNSLSLDELVVFVWQDQENLVL 65  
QY 67 YEIFRGKENPQNVHLKYKGTSTFDKDNWTLRLHNVOIKDGYHCFIHYKGPGLVPMHQ 126  
Db 66 NEVYLKKEKFDSDVHSKYMGRSTFSDSWTLRLHNLQIKDKGLYQCIIHHKPTGMIRIHQ 125  
QY 127 MSSDLSVLANFSQPEITVTSNRTENSIGIINLTCSISIQGYPEPEKMYFQLTNENSTTKYDT 186

Db 126 MNSLSVLANSFQPEIVPISNITENV-YINLTCSIHGYPEPKMSVLLRTKNSTIEYDG 184  
QY 187 VMKKSQNNVTLYNYSISLPFSVPE-AHNVSVFCALKLETLEMLSLPFDNDAQPKDKDP 245  
Db 185 IMQSQDNVTLYDVSISLSVSPDVTNSMTIFCILETDKTR-LLSSPFSIELE--DPQP 241  
QY 246 EOGHFLWIAAVLVMFVFCGWSFKTLRK-RKKQPGPSHECETIKRERKESQTNERPVP 304  
Db 242 PPDHPIWITAVLPT-VIIICVMVFCILILWKWKKKRPRNSYKCGTNTMERESEQTKKREK 300  
QY 305 YHVPERSDEAOCV-NILKTASGDKN 328  
Db 301 IHIPERSDEAQRVFKSKTSKCDKS 325

## RESULT 11

US-08-702-525-23  
; Sequence 23, Application US/08702525  
; Patent No. 6294660  
; GENERAL INFORMATION:  
; APPLICANT: Sharpe, Sharpe  
; APPLICANT: Borriello, Francescopaolo  
; APPLICANT: Freeman, Gordon  
; APPLICANT: Nadler, Lee  
; TITLE OF INVENTION: No. 6294660el Forms of T Cell Costimulatory  
; TITLE OF INVENTION: Molecules and Uses Therefor  
; NUMBER OF SEQUENCES: 65  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: LAHIVE & COCKFIELD  
; STREET: 28 State Street  
; CITY: Boston  
; STATE: Massachusetts  
; COUNTRY: USA  
; ZIP: 02109-1875  
; MEDIUM TYPE: Floppy disk  
; COMPUTER READABLE FORM:  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: ASCII Text  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/702,525  
; FILING DATE:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/205,697  
; FILING DATE: 02-Mar-1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Mandragouras, Amy E.  
; REGISTRATION NUMBER: 36,207  
; REFERENCE/DOCKET NUMBER: BWI-120CPUS  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617)227-7400  
; TELEFAX: (617)227-5941  
; INFORMATION FOR SEQ ID NO: 23:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 329 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-702-525-23

Query Match 52.0%; Score 903; DB 3; Length 329;  
Best Local Similarity 58.5%; Pred. No. 2.1e-83;  
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;  
QY 7 TWGLSLTLVALLSGVSMKSSQAYFNKGTGELPCHFTNSQISLDELVVFWDQOKLVL 66  
Db 6 TWGLSNILFWAFLLSGAAPLKIQAIFYNETADLPQCFANSQSLSELVVFWDQENLVL 65  
QY 67 YEIFRKENPQNVLHLYKGTSPDKDNWTLRLHNVQIKDGYHPCPIHYKPGKLVPMHQ 126  
Db 66 NEVYLGKFKFDSVHSYKMGRTSPDSWTLRLHNLQIKDKGLYQCIHHKXPTGMIRIHQ 125

QY 127 MSSDLVLANSFQPEITVTISNRTENSIIINLTCSISIQGYPEPKMYFQNLNTENSTTKYDT 186  
Db 126 MNSLSVLANSFQPEIVPISNITENV-YINLTCSIHGYPEPKMSVLLRTKNSTIEYDG 184  
QY 187 VMKKSQNNVTLYNYSISLPFSVPE-AHNVSVFCALKLETLEMLSLPFDNDAQPKDKDP 245  
Db 185 IMQSQDNVTLYDVSISLSVSPDVTNSMTIFCILETDKTR-LLSSPFSIELE--DPQP 241  
QY 246 EOGHFLWIAAVLVMFVFCGWSFKTLRK-RKKQPGPSHECETIKRERKESQTNERPVP 304  
Db 242 PPDHPIWITAVLPT-VIIICVMVFCILILWKWKKKRPRNSYKCGTNTMERESEQTKKREK 300  
QY 305 YHVPERSDEAOCV-NILKTASGDKN 328  
Db 301 IHIPERSDEAQRVFKSKTSKCDKS 325

## RESULT 12

US-08-403-253A-4  
; Sequence 4, Application US/08403253A  
; Patent No. 6352694  
; GENERAL INFORMATION:  
; APPLICANT: June, Carl H., Thompson, Craig B., Nabel, Gary J.  
; APPLICANT: Gray, Gary S., Rennert, Paul D.  
; TITLE OF INVENTION: Methods For Selectively Stimulating Proliferation Of T-Cells  
; NUMBER OF SEQUENCES: 14  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: LAHIVE & COCKFIELD  
; STREET: 28 State Street  
; CITY: Boston  
; STATE: Massachusetts  
; COUNTRY: USA  
; ZIP: 02109  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/403,253A  
; FILING DATE: March 10, 1995  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/253,964  
; FILING DATE: 3 JUNE 1994  
; APPLICATION NUMBER: US 08/073,223  
; FILING DATE: 4 JUNE 1993  
; APPLICATION NUMBER: US 08/200,947  
; FILING DATE: 23 FEB 1994  
; APPLICATION NUMBER: US 07/864,805  
; FILING DATE: 7 APR 1992  
; APPLICATION NUMBER: US 08/247,505  
; FILING DATE: 23 MAY 1994  
; APPLICATION NUMBER: US 07/864,866  
; FILING DATE: 7 APR 1992  
; APPLICATION NUMBER: US 08/218,155  
; FILING DATE: 25 MAR 1994  
; APPLICATION NUMBER: US 07/864,807  
; FILING DATE: 7 APR 1992  
; APPLICATION NUMBER: US 07/902,467  
; FILING DATE: 16 JUNE 1992  
; APPLICATION NUMBER: US 07/275,433  
; FILING DATE: 23 NOV 1988  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Mandragouras, Amy E.  
; REGISTRATION NUMBER: 36,207  
; REFERENCE/DOCKET NUMBER: RPI-002CP2  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617) 227-7400  
; INFORMATION FOR SEQ ID NO: 4:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 329 amino acids



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;
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-403-253A-4

Query Match      52.0%; Score 903; DB 3; Length 329;
Best Local Similarity 58.5%; Pred. No. 2.1e-83;
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;

QY 7 TWGLSHTLLVWALLLSGVSMKSOAYFNKTGELPCHFTNSONISLDELVVFWDQDKLV 66
Db 6 TWGLSNILFWALLSGAAPLKIQAYFNETADLPQCFANSQNSLSELVVFWDQENLV 65

QY 67 YEIFRGKENPQNVHLKYKRTSFDKDNWTLRLHNQIKDKGYHCFIHYKGPGLVPMHQ 126
Db 66 NEVYLKKEKFDVSHSKYMGRTSFDSDWTLRLHNQIKDKGLYQCIHHKKTGMIRIHQ 125

QY 127 MSDDLVLNFSQPEITVTSNRTENSGIINLTCSISIQGYPEPKEMYFQNTENSTTKYDT 186
Db 126 MNSLSVLNFSQPEIVPISNITENV-YINLTCSISIHGYPEPKMSVLLRTKNSTIYDG 184

QY 187 VMKSSONNVTELYNYSISLPSFVPE-AHNVSVFCALKLETLEMLLSLPENIDAQPKDKP 245
Db 185 IMQSQDNVTELYNYSISLPSFVPE-AHNVSVFCALKLETLEMLLSLPENIDAQPKDKP 241

QY 246 EQGHFLWIAAALVWVFCMVSPFKTLRK-RKKQPGPSHECETIKRERKESKQTNMERVP 304
Db 242 PPDHPIWITAVLPT-VIICVMVFCILWKKKPRNSYKCGTNTMERSEQTKREK 300

QY 305 YHVPERDEAQCVC-NILKTASGDKN 328
Db 301 IHPERSDEAQRVFKSKTSKCDKS 325

RESULT 13
US-08-435-816A-4
; Sequence 4, Application US/08435816A
; Patent No. 6534055
; GENERAL INFORMATION:
; APPLICANT: June, Carl H.
; APPLICANT: Thompson, Craig B.
; APPLICANT: Nabel, Gary J.
; APPLICANT: Gray, Gary S.
; APPLICANT: Rennett, Paul D.
; TITLE OF INVENTION: Methods For Selectively Stimulating Proliferation Of T-Cells
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 State Street, Suite 510
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/435,816A
; FILING DATE: May 4, 1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/403,253
; FILING DATE: 10 MARCH 1995
; APPLICATION NUMBER: US 08/253,964
; FILING DATE: 3 JUNE 1994
; APPLICATION NUMBER: US 08/073,223
; FILING DATE: 4 JUNE 1993
; APPLICATION NUMBER: US 08/200,947
; FILING DATE: 23 FEB 1994
; APPLICATION NUMBER: US 07/864,805
; FILING DATE: 7 APR 1992
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; APPLICATION NUMBER: US 08/247,505
; FILING DATE: 23 MAY 1994
; APPLICATION NUMBER: US 07/864,866
; FILING DATE: 7 APR 1992
; APPLICATION NUMBER: US 08/218,155
; FILING DATE: 25 MAR 1994
; APPLICATION NUMBER: US 07/864,807
; FILING DATE: 7 APR 1992
; APPLICATION NUMBER: US 07/902,467
; FILING DATE: 16 JUNE 1992
; APPLICATION NUMBER: US 07/275,433
; FILING DATE: 23 NOV 1988
; ATTORNEY/AGENT INFORMATION:
; NAME: Mandragouras, Amy E.
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: RPI-002CP3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 329 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-435-816A-4

Query Match      52.0%; Score 903; DB 4; Length 329;
Best Local Similarity 58.5%; Pred. No. 2.1e-83;
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;

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Db 6 TWGLSNILFWALLSGAAPLKIQAYFNETADLPQCFANSQNSLSELVVFWDQENLV 65

QY 67 YEIFRGKENPQNVHLKYKRTSFDKDNWTLRLHNQIKDKGYHCFIHYKGPGLVPMHQ 126
Db 66 NEVYLKKEKFDVSHSKYMGRTSFDSDWTLRLHNQIKDKGLYQCIHHKKTGMIRIHQ 125

QY 127 MSDDLVLNFSQPEITVTSNRTENSGIINLTCSISIQGYPEPKEMYFQNTENSTTKYDT 186
Db 126 MNSLSVLNFSQPEIVPISNITENV-YINLTCSISIHGYPEPKMSVLLRTKNSTIYDG 184

QY 187 VMKSSONNVTELYNYSISLPSFVPE-AHNVSVFCALKLETLEMLLSLPENIDAQPKDKP 245
Db 185 IMQSQDNVTELYNYSISLPSFVPE-AHNVSVFCALKLETLEMLLSLPENIDAQPKDKP 241

QY 246 EQGHFLWIAAALVWVFCMVSPFKTLRK-RKKQPGPSHECETIKRERKESKQTNMERVP 304
Db 242 PPDHPIWITAVLPT-VIICVMVFCILWKKKPRNSYKCGTNTMERSEQTKREK 300

QY 305 YHVPERDEAQCVC-NILKTASGDKN 328
Db 301 IHPERSDEAQRVFKSKTSKCDKS 325

RESULT 14
US-09-425-762-2
; Sequence 2, Application US/09425762
; Patent No. 6605279
; GENERAL INFORMATION:
; APPLICANT: Freeman, Gordon J.
; APPLICANT: Nadler, Lee M.
; APPLICANT: Gray, Gary S.
; TITLE OF INVENTION: No. 6605279el CTLA4/CD28 Ligands and
; TITLE OF INVENTION: Uses Therefor
; NUMBER OF SEQUENCES: 55
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD, LLP
; STREET: 60 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
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; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/425,762
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/479,744
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Mandragouras, Amy B.
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: RPI-004CP3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 329 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
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; US-09-425-762-2
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Best Local Similarity 58.5%; Pred. No. 2.1e-83;
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;

QY 7 TWGLSHTLLVMALLSGVSMKSOAYFNKTGBLPCHTNSQISLDELVFWQDQDKLVL 66
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QY 127 MSSDLVLANFSQPEITVTSNRTENSGIINLTCSISIQGYPEPKMYFQINTENSTTKYDT 186
DB 126 MNSLSVLANFSQPEIVPISNITENV-YINLTCSISIHGYPEPKMSVLLRTKNSTIEYDG 184
QY 187 VMKKSQNNVTLEYNSISLSPFSVPE-AHNVSFVCALKLETLEMLLSLPFNIDAQPKDOP 245
DB 185 IMQKSDQNVTELYDYSISLSPFDPVTSNMTIFCILETDKTR-LSSPFSIELE--DPQP 241
QY 246 EQGHFLWIAAFLVMFVFCGMVSFKTLRK-RKKQPGPSHECETIKRKESKQTNERPVP 304
DB 242 PPDHIPWITAVLPT-VIICVMVFCILILWKWKKKRPNRSYKCGTNTMERESSEQTKKREK 300
QY 305 YHVPERSDEAQCVC-NILKTASGDKN 328
DB 301 IHIPERSDEAQRVFKSKTSKCDKS 325
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RESULT 15
US-09-837-867A-23
; Sequence 23, Application US/09837867A
; Patent No. 6608180
; GENERAL INFORMATION:
; APPLICANT: Sharpe, Arlene H.
; APPLICANT: Borriello, Francescopaulo
; APPLICANT: Freeman, Gordon J.
; APPLICANT: Nadler, Lee M.
; TITLE OF INVENTION: No. 6608180el Forms of T Cell Costimulatory
; FILE REFERENCE: BWI-120CPADV
; CURRENT APPLICATION NUMBER: US/09/837,867A
; CURRENT FILING DATE: 2001-04-17
; PRIOR APPLICATION NUMBER: 08/205,697
; PRIOR FILING DATE: 1994-03-02
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; NUMBER OF SEQ ID NOS: 42
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 23
; LENGTH: 329
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-837-867A-23

Query Match 52.0%; Score 903; DB 4; Length 329;
Best Local Similarity 58.5%; Pred. No. 2.1e-83;
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;

QY 7 TWGLSHTLLVMALLSGVSMKSOAYFNKTGBLPCHTNSQISLDELVFWQDQDKLVL 66
DB 6 TWGLSNILFVMAFLLSGAAPLKIQAYFNETADLPCQFANSQNSLSLVVFWQDQENLVL 65
QY 67 YEIFRGKENPONVHLKYKGRTSFDDKNWTLRLHNVOIKDKGTYHCFHYKGPGLVPMHQ 126
DB 66 NEVYLKGEKFDSDVHVKYMGRTSFDSDSWTLRLHNLQIKDKGLYQCIHHKKTGMIRIHQ 125
QY 127 MSSDLVLANFSQPEITVTSNRTENSGIINLTCSISIQGYPEPKMYFQINTENSTTKYDT 186
DB 126 MNSLSVLANFSQPEIVPISNITENV-YINLTCSISIHGYPEPKMSVLLRTKNSTIEYDG 184
QY 187 VMKKSQNNVTLEYNSISLSPFSVPE-AHNVSFVCALKLETLEMLLSLPFNIDAQPKDOP 245
DB 185 IMQKSDQNVTELYDYSISLSPFDPVTSNMTIFCILETDKTR-LSSPFSIELE--DPQP 241
QY 246 EQGHFLWIAAFLVMFVFCGMVSFKTLRK-RKKQPGPSHECETIKRKESKQTNERPVP 304
DB 242 PPDHIPWITAVLPT-VIICVMVFCILILWKWKKKRPNRSYKCGTNTMERESSEQTKKREK 300
QY 305 YHVPERSDEAQCVC-NILKTASGDKN 328
DB 301 IHIPERSDEAQRVFKSKTSKCDKS 325

Search completed: August 17, 2005, 19:00:02
Job time : 25 secs
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GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: August 17, 2005, 18:58:34 ; Search time 158 Seconds  
(without alignments)  
815.391 Million cell updates/sec

Title: US-09-303-510-6  
Perfect score: 1737  
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Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1759131 seqs, 391586102 residues

Total number of hits satisfying chosen parameters: 1759131

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA.\*  
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22: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	1737	100.0	329	9	US-09-303-040-6
3	1726	99.4	332	16	US-10-790-396-26
4	1372	79.0	329	16	US-10-790-396-7
5	1157.5	66.6	280	16	US-10-790-396-17
6	903	52.0	329	8	US-08-592-711-4
7	903	52.0	329	9	US-09-183-055-4
8	903	52.0	329	9	US-09-425-762-2
9	903	52.0	329	9	US-09-837-867A-23
10	903	52.0	329	10	US-09-441-411-26
11	903	52.0	329	10	US-09-962-969-23

12	903	52.0	329	10	US-09-350-202-4	Sequence 4, Appli
13	903	52.0	329	14	US-10-041-319-8	Sequence 8, Appli
14	903	52.0	329	15	US-10-390-330-4	Sequence 4, Appli
15	903	52.0	329	16	US-10-643-768-23	Sequence 23, Appl
16	903	52.0	329	16	US-10-756-783-6	Sequence 6, Appli
17	903	52.0	329	16	US-10-762-128-26	Sequence 26, Appli
18	903	52.0	329	16	US-10-429-079B-2	Sequence 2, Appli
19	903	52.0	329	18	US-10-767-561-2	Sequence 2, Appli
20	900	51.8	329	15	US-10-318-855-32	Sequence 32, Appli
21	898	51.7	323	9	US-09-955-866-5	Sequence 5, Appli
22	898	51.7	323	9	US-09-896-738-11	Sequence 11, Appli
23	898	51.7	323	9	US-09-915-789A-16	Sequence 16, Appli
24	898	51.7	323	10	US-09-441-411-22	Sequence 22, Appli
25	898	51.7	323	13	US-10-087-192-1080	Sequence 1080, Ap
26	898	51.7	323	14	US-10-207-655-121	Sequence 121, App
27	898	51.7	323	16	US-10-762-128-22	Sequence 22, Appl
28	898	51.7	323	16	US-10-276-642-16	Sequence 16, Appli
29	898	51.7	323	17	US-10-802-440-4	Sequence 4, Appli
30	898	51.7	323	17	US-10-616-865-4	Sequence 4, Appli
31	898	51.7	323	20	US-11-027-053-4	Sequence 4, Appli
32	894.5	51.5	324	9	US-09-910-174A-6	Sequence 6, Appli
33	894.5	51.5	324	16	US-10-644-671-6	Sequence 6, Appli
34	872	50.2	169	16	US-10-790-396-31	Sequence 31, Appli
35	754.5	43.4	260	9	US-09-845-899A-5	Sequence 5, Appli
36	746.5	43.0	246	16	US-10-334-235-50	Sequence 40, Appl
37	746.5	43.0	351	9	US-09-756-983-18	Sequence 18, Appl
38	746.5	43.0	351	16	US-10-614-639A-18	Sequence 18, Appl
39	746.5	43.0	351	17	US-10-614-414A-18	Sequence 18, Appl
40	687.5	39.6	219	9	US-09-915-789A-22	Sequence 22, Appli
41	682.5	39.3	218	17	US-10-890-789-12	Sequence 12, Appli
42	643.5	37.0	356	10	US-09-441-411-11	Sequence 11, Appli
43	643.5	37.0	356	10	US-09-441-411-12	Sequence 12, Appli
44	643.5	37.0	356	10	US-09-441-411-16	Sequence 16, Appli
45	643.5	37.0	356	10	US-09-441-411-17	Sequence 17, Appli

ALIGNMENTS

RESULT 1  
US-09-303-510-6  
; Sequence 6, Application US/09303510A  
; Patent No. US20020028208A1  
; GENERAL INFORMATION:  
; APPLICANT: Collis, Ellen W.  
; APPLICANT: Hash, Stephen M.  
; APPLICANT: Choi, InSoo  
; TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CD28, and Feline  
; TITLE OF INVENTION: CTLA-4 Nucleic Acid and Polypeptides  
; FILE REFERENCE: 54954  
; CURRENT APPLICATION NUMBER: US/09/303,510A  
; CURRENT FILING DATE: 1999-04-30  
; EARLIER APPLICATION NUMBER: 60/083,869  
; EARLIER FILING DATE: 1998-05-01  
; NUMBER OF SEQ ID NOS: 83  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 6  
; LENGTH: 329  
; TYPE: PRT  
; ORGANISM: Feline  
US-09-303-510-6

Query Match	100.0%;	Score 1737;	DB 9;	Length 329;
Best Local Similarity	100.0%;	Pred. No. 1.2e-134;		
Matches 329;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	MGICDSTWGLSHTLLVMALLSGVSMKSQAFNKTGELPCHFTNSQNSLDELVVWQD	60	
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QY	61	QDKLVLYIFRKGKPNQVHLKYKGRTSFDKDNWTLRLHNQIKDGTGTHYKGPKG	120	
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DB 181 TTKYDTVMKKSQNNVTLYNVSISLPFSVPEAHNVSVFCALKLETLEMLLSLPFNDAQP 240  
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DB 241 KDKDPEQGHFLIAAVLVNMFVFCGMVSFKTLRKRRKKQPGPSHCECTIKRERKESKQTN 300  
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DB 301 ERVPYHVPSRDEAQCWNILKTASGDKN 329

## RESULT 2

US-09-303-040-6  
; Sequence 6, Application US/09303040  
; Patent No. US20020051792A1  
; GENERAL INFORMATION:  
; APPLICANT: Winslow, Barbara J.  
; TITLE OF INVENTION: Recombinant Virus Expressing Foreign DNA Encoding  
; TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CD28, Feline CTLA-4 or  
; TITLE OF INVENTION: Feline Interferon-gamma And Uses Thereof  
; FILE REFERENCE: 54957-B  
; CURRENT APPLICATION NUMBER: US/09/303,040  
; CURRENT FILING DATE: 1999-04-30  
; EARLIER APPLICATION NUMBER: 60/083,870  
; EARLIER FILING DATE: 1998-05-01  
; NUMBER OF SEQ ID NOS: 82  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 6  
; LENGTH: 329  
; TYPE: PRT  
; ORGANISM: feline CD86  
US-09-303-040-6

Query Match 100.0%; Score 1737; DB 9; Length 329;  
Best Local Similarity 100.0%; Pred. No. 1.2e-134;  
Matches 329; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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QY 121 LVPVHMSSDLSVLANFSOPEITVTSNRTEGSIINLTCSIIQGYPEPKEMYFQNTENS 180  
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DB 181 TTKYDTVMKKSQNNVTLYNVSISLPFSVPEAHNVSVFCALKLETLEMLLSLPFNDAQP 240  
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## RESULT 3

US-10-790-396-26  
; Sequence 26, Application US/10790396

; Publication No. US20040157296A1  
; GENERAL INFORMATION:  
; APPLICANT: Sim, Gek-Kee  
; APPLICANT: Yang, Shumin  
; APPLICANT: Sellins, Karen S.  
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC  
; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF  
; FILE REFERENCE: IM-1-CI-PCT  
; CURRENT APPLICATION NUMBER: US/10/790,396  
; CURRENT FILING DATE: 2004-03-01  
; PRIOR APPLICATION NUMBER: US/09/646,561  
; PRIOR FILING DATE: 2000-09-19  
; PRIOR APPLICATION NUMBER: 60/078,765  
; PRIOR FILING DATE: 1998-03-19  
; PRIOR APPLICATION NUMBER: 09/062,597  
; PRIOR FILING DATE: 1998-04-17  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 26  
; LENGTH: 332  
; TYPE: PRT  
; ORGANISM: Felis catus  
US-10-790-396-26

Query Match 99.4%; Score 1726; DB 16; Length 332;  
Best Local Similarity 99.4%; Pred. No. 9.8e-134;  
Matches 326; Conservative 2; Mismatches 0; Indels 0; Gaps 0;  
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QY 61 QDKLVLYEYFRGKPNQNVHLKYKRTSFDKDNWTLRLHNVOIKDGYHCFHYKGPKG 120  
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DB 121 LVPVHMSSDLSVLANFSOPEITVTSNRTEGSIINLTCSIIQGYPEPKEMYFQNTENS 180  
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US-10-790-396-7  
; Sequence 7, Application US/10790396  
; Publication No. US20040157296A1  
; GENERAL INFORMATION:  
; APPLICANT: Sim, Gek-Kee  
; APPLICANT: Yang, Shumin  
; APPLICANT: Sellins, Karen S.  
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC  
; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF  
; FILE REFERENCE: IM-1-CI-PCT  
; CURRENT APPLICATION NUMBER: US/10/790,396  
; CURRENT FILING DATE: 2004-03-01  
; PRIOR APPLICATION NUMBER: US/09/646,561  
; PRIOR FILING DATE: 2000-09-19  
; PRIOR APPLICATION NUMBER: 60/078,765  
; PRIOR FILING DATE: 1998-03-19  
; PRIOR APPLICATION NUMBER: 09/062,597  
; PRIOR FILING DATE: 1998-04-17  
; NUMBER OF SEQ ID NOS: 65

; SOFTWARE: PatentIn Ver. 2.0  
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; LENGTH: 329  
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US-10-790-396-7

Query Match 79.0%; Score 1372; DB 16; Length 329;  
Best Local Similarity 81.7%; Pred. No. 1.4e-104;  
Matches 263; Conservative 22; Mismatches 35; Indels 2; Gaps 2;

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QY 67 YEIFRGKENPQNVHLKYKRTSFDKDNWTLRLHNVOIKDGYHCFIHYKGPGLVPMHQ 126  
DB 66 YELYRGKENPQNVHRKYKRTSFDKDNWTLRLHNIQIKDKGLYQCFVHHKGPGLVPMHQ 125  
QY 127 MMSDLVLANFSPQETVTSNRTNSGIINLTCSSTQGYPEPKEMYFQNLNTENSTTKYDT 186  
DB 126 MMSDLVLANFSPQETVTSNRTNSGIINLTCSSTQGYPEPKEMYFQNLNTENSTTKYDT 185  
QY 187 VMKKSQNNVTLYNVSISLSPFVPEAHNVSVFCALKLEMLLSLPFNIDAQPKDKDPE 246  
DB 186 VMKKSQNNVTLYNVSISLSPFVPEAHNVSVFCALKLEMLLSLPFNIDAQPKDKDPE 243  
QY 247 QGHFLWIAAIVLVFVFCGMVSPFKTLRKRRKKQPGPSHCECTIKRERKESKOTNERVPYH 306  
DB 244 GDHILWIAALLVMLVLCGVFLLTLRKRRKKQPGPSHCECTIKRERKESKOTNERVPYH 303  
QY 307 VPHRSDEAQCQVNIKTASGDKN 328  
DB 304 ETERSDEAQCQVNIKTASGDKNS 325

RESULT 5

US-10-790-396-17  
; Sequence 17, Application US/10790396  
; Publication No. US20040157296A1  
; GENERAL INFORMATION:  
; APPLICANT: Sim, Gek-Kee  
; APPLICANT: Yang, Shumin  
; APPLICANT: Sellins, Karen S.  
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC  
; FILE REFERENCES: IM-1-CI-PCT  
; CURRENT APPLICATION NUMBER: US/10790,396  
; CURRENT FILING DATE: 2004-03-01  
; PRIOR APPLICATION NUMBER: US/09/646,561  
; PRIOR FILING DATE: 2000-09-19  
; PRIOR APPLICATION NUMBER: 60/078,765  
; PRIOR FILING DATE: 1998-03-19  
; PRIOR APPLICATION NUMBER: 09/062,597  
; PRIOR FILING DATE: 1998-04-17  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 17  
; LENGTH: 280  
; TYPE: PRT  
; ORGANISM: Canis familiaris  
US-10-790-396-17

Query Match 66.8%; Score 1157.5; DB 16; Length 280;  
Best Local Similarity 70.8%; Pred. No. 5.3e-87;  
Matches 228; Conservative 19; Mismatches 24; Indels 51; Gaps 2;

QY 7 TMSGLSHLLVMAILLGVSVMKSAQYFNKTGELPCHFTNSQNSISLDELVVFWDQDKLV 66  
DB 6 TMLNNILFVMTLLLYGAASMKSAQYFNKTGELPCHFTNSQNSISLDELVVFWDQDKLV 65  
QY 67 YEIFRGKENPQNVHLKYKRTSFDKDNWTLRLHNVOIKDGYHCFIHYKGPGLVPMHQ 126

DB 66 YELYRGKENPQNVHRKYKRTSFDKDNWTLRLHNIQIKDKGLYQCFVHHKGPGLVPMHQ 125  
QY 127 MMSDLVLANFSPQETVTSNRTNSGIINLTCSSTQGYPEPKEMYFQNLNTENSTTKYDT 186  
DB 126 MMSDLVLANFSPQETVTSNRTNSGIINLTCSSTQGYPEPKEMYFQNLNTENSTTKYDT 185  
QY 187 VMKKSQNNVTLYNVSISLSPFVPEAHNVSVFCALKLEMLLSLPFNIDAQPKDKDPE 246  
DB 186 VMKKSQNNVTLYNVSISLSPFVPEAHNVSVFCALKLEMLLSLPFNIDAQPKDKDPE 234  
QY 247 QGHFLWIAAIVLVFVFCGMVSPFKTLRKRRKKQPGPSHCECTIKRERKESKOTNERVPYH 306  
DB 235 -----ETNKVERKESQTKERVYH 254  
QY 307 VPHRSDEAQCQVNIKTASGDKN 328  
DB 255 ETERSDEAQCQVNIKTASGDKNS 276

RESULT 6

US-08-592-711-4  
; Sequence 4, Application US/08592711  
; Publication No. US20020115214A1  
; GENERAL INFORMATION:  
; APPLICANT: June, Carl H.  
; APPLICANT: Thompson, Craig B.  
; APPLICANT: Nabel, Gary J.  
; APPLICANT: Gray, Gary S.  
; APPLICANT: Remert, Paul D.  
; TITLE OF INVENTION: Methods For Selectively Stimulating Proliferation Of T-Cells  
; NUMBER OF SEQUENCES: 14  
; CORRESPONDENCE ADDRESSES:  
; ADDRESS: LAHIVE & COCKFIELD  
; STREET: 60 State Street  
; CITY: Boston  
; STATE: Massachusetts  
; COUNTRY: USA  
; ZIP: 02109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/592,711  
; FILING DATE: 26-JAN-1996  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/435,816  
; FILING DATE: 4-MAY-1995  
; APPLICATION NUMBER: US 08/403,253  
; FILING DATE: 10-MARCH-1995  
; APPLICATION NUMBER: US 08/253,964  
; FILING DATE: 3-JUNE-1994  
; APPLICATION NUMBER: US 08/073,223  
; FILING DATE: 4-JUNE-1993  
; APPLICATION NUMBER: US 08/200,947  
; FILING DATE: 23-FEB-1994  
; APPLICATION NUMBER: US 07/864,805  
; FILING DATE: 7-APR-1992  
; APPLICATION NUMBER: US 08/247,505  
; FILING DATE: 23-MAY-1994  
; APPLICATION NUMBER: US 07/864,866  
; FILING DATE: 7-APR-1992  
; APPLICATION NUMBER: US 08/218,155  
; FILING DATE: 25-MAR-1994  
; APPLICATION NUMBER: US 07/864,807  
; FILING DATE: 7-APR-1992  
; APPLICATION NUMBER: US 07/902,467  
; FILING DATE: 16-JUNE-1992  
; APPLICATION NUMBER: US 07/275,433  
; FILING DATE: 23-NOV-1988  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Mandragouras, Amy E.

REGISTRATION NUMBER: 36,207  
REFERENCE/DOCKET NUMBER: RPI-002CP4  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 329 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-592-711-4

Query Match 52.0%; Score 903; DB 8; Length 329;  
Best Local Similarity 58.5%; Pred. No. 6.1e-66;  
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;

QY 7 TWGLSHTLLVMAALLSGVSSMKSQAYFNKTGELPCHFTNSQNSISLDELVVFQDQDKLVL 66  
Db 6 TWGLSNILFWAFLLSGAAPLKIQAYFNETADLPCCFANSQNSLSLSELVVFQDQENLVL 65

QY 67 YEIFRKENPQNVHLKYKRTSPDKDNWTLRLHNQIKDGYHCFHYHKGPKGLVPMHQ 126  
Db 66 NEVYLGEKFDVSHSKYMGRTSPDSDSWTLRLHNQIKDGLYQCIHHKKTGMIRIHQ 125

QY 127 MSDSLVLANSFQPEITVTSNRTENSGIINLTCSSTIQGYPEPKEMYFQLTENSTTKYDT 186  
Db 126 MNSELSVLANSFQPEIVPISNITENV-YINLTCSSTIHGYPEPKKMSVLLRTKNSTIEYDG 184

QY 187 VMKKSQNVTELYNYSISLPFSVPE-AHNVSVFCALKLETLEMLSLPENIDAQPKDKDP 245  
Db 185 IMKSDQNVTELYDVSISLSVFPDVTNMTIFCILETDKTR-LLSSPFSIELE--DPQP 241

QY 246 EQGHFWIAAALVLMVFCGMSVFKTLRK-RKKQPGPSHECETIKRERKESQKNRVP 304  
Db 242 PPDHIPWITAVLPT-VIICVMVFCILLWKWKKKRPRNSYKCGTNTMERESEQTKKREK 300

QY 305 YHVPERSDEAOCV-NILKTASGDKN 328  
Db 301 IHIPERSDEAQRVFKSKTSKCDKS 325

RESULT 7  
US-09-183-055-4  
Sequence 4, Application US/09183055  
Publication No. US20020076407A1  
GENERAL INFORMATION:  
APPLICANT: June, Carl H., Thompson, Craig B., Nabel, Gary J.  
Gray, Gary S., Rennert, Paul D.  
TITLE OF INVENTION: Methods For Selectively Stimulating Proliferation Of T-Cells  
NUMBER OF SEQUENCES: 14  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: HALE AND DORR LLP  
STREET: 60 State Street  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/183,055  
FILING DATE: 30-Oct-1998  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/403,253  
FILING DATE: March 10, 1995  
APPLICATION NUMBER: US 08/253,964  
FILING DATE: 3 JUNE 1994

APPLICATION NUMBER: US 08/073,223  
FILING DATE: 4 JUNE 1993  
APPLICATION NUMBER: US 08/200,947  
FILING DATE: 23 FEB 1994  
APPLICATION NUMBER: US 07/864,805  
FILING DATE: 7 APR 1992  
APPLICATION NUMBER: US 08/247,505  
FILING DATE: 23 MAY 1994  
APPLICATION NUMBER: US 07/864,866  
FILING DATE: 7 APR 1992  
APPLICATION NUMBER: US 08/218,155  
FILING DATE: 25 MAR 1994  
APPLICATION NUMBER: US 07/864,807  
FILING DATE: 7 APR 1992  
APPLICATION NUMBER: US 07/902,467  
FILING DATE: 16 JUNE 1992  
APPLICATION NUMBER: US 07/275,433  
FILING DATE: 23 NOV 1988  
ATTORNEY/AGENT INFORMATION:  
NAME: Superko, Colleen  
REGISTRATION NUMBER: 39,850  
REFERENCE/DOCKET NUMBER: 36119-125US8  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 526-6564  
TELEFAX: (617) 526-5000  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 329 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 4:  
US-09-183-055-4

Query Match 52.0%; Score 903; DB 9; Length 329;  
Best Local Similarity 58.5%; Pred. No. 6.1e-66;  
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;

QY 7 TWGLSHTLLVMAALLSGVSSMKSQAYFNKTGELPCHFTNSQNSISLDELVVFQDQDKLVL 66  
Db 6 TWGLSNILFWAFLLSGAAPLKIQAYFNETADLPCCFANSQNSLSLSELVVFQDQENLVL 65

QY 67 YEIFRKENPQNVHLKYKRTSPDKDNWTLRLHNQIKDGYHCFHYHKGPKGLVPMHQ 126  
Db 66 NEVYLGEKFDVSHSKYMGRTSPDSDSWTLRLHNQIKDGLYQCIHHKKTGMIRIHQ 125

QY 127 MSDSLVLANSFQPEITVTSNRTENSGIINLTCSSTIQGYPEPKEMYFQLTENSTTKYDT 186  
Db 126 MNSELSVLANSFQPEIVPISNITENV-YINLTCSSTIHGYPEPKKMSVLLRTKNSTIEYDG 184

QY 187 VMKKSQNVTELYNYSISLPFSVPE-AHNVSVFCALKLETLEMLSLPENIDAQPKDKDP 245  
Db 185 IMKSDQNVTELYDVSISLSVFPDVTNMTIFCILETDKTR-LLSSPFSIELE--DPQP 241

QY 246 EQGHFWIAAALVLMVFCGMSVFKTLRK-RKKQPGPSHECETIKRERKESQKNRVP 304  
Db 242 PPDHIPWITAVLPT-VIICVMVFCILLWKWKKKRPRNSYKCGTNTMERESEQTKKREK 300

QY 305 YHVPERSDEAOCV-NILKTASGDKN 328  
Db 301 IHIPERSDEAQRVFKSKTSKCDKS 325

RESULT 8  
US-09-425-762-2  
Sequence 2, Application US/09425762  
Publication No. US20020086414A1  
GENERAL INFORMATION:  
APPLICANT: Freeman, Gordon J.  
Gray, Gary S.  
FILING DATE: March 10, 1995  
APPLICATION NUMBER: No. 6605279el  
TITLE OF INVENTION: Uses Therefor

NUMBER OF SEQUENCES: 55  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: LAHIVE & COCKFIELD, LLP  
STREET: 60 State Street  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/425,762  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/479,744  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Mandragouras, Amy E.  
REGISTRATION NUMBER: 36,207  
REFERENCE/DOCKET NUMBER: RPI-004CP3  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 329 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-425-762-2

Query Match 52.0%; Score 903; DB 9; Length 329;  
Best Local Similarity 58.5%; Pred. No. 6.1e-66;  
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;  
QY 7 TMGLSHTLLVMAALLSGVSSMKSQAYFNKTGELPCHFTNSQNSISLDELVVFWDQDKLV 66  
DB 6 TMGLSNILFVMAFLLSGAAPLKIQAIFYNETADLPQCFANSQNSLSLSELVVFWDQENLVL 65  
QY 67 YEIFRGENPQNVHLKYKRTSFDKDNWTLRLHNVOIKDGYHCFHYKGPGLVPMHQ 126  
DB 66 NEVYLKKEKFDVSHSKYMGRTSFDSDSWTLRLHNLIQDKGLYQCIHHKKPTGMIRIHQ 125  
QY 127 MSSDLVLANFSGPEITVTSNRNTENSGIINLTCSISQGYPEPKEMYFQNTENSTTKYDT 186  
DB 126 MNSLSVLANFSGPEIVPISNITENV-YINLTCSISGHGYPEPKKMSVLLRTRKNTSTIEDG 184  
QY 187 VMKKSQNVTELYNVSISLSPFSVPE-AHNVSVFCALKLETMLLSLPFNIDAQPKDKDP 245  
DB 185 IMQKSQNVTELYDVSISLSPFDPVTSNMFTICILETKTR-LLSSPFSIELE--DPQP 241  
QY 246 EQGHFLWIAAVLVMFVFCGMVSFKTLRK-RKKQKQPGSHECTIKRKESKQTNERP 304  
DB 242 PPDHPIWITAVLPT-VIICVMVFCILWKKKKRPNYSKCGTNTWREESQTKKREK 300  
QY 305 YHVPSRDEAQC-VNLTASGDKN 328  
DB 301 IHIPERSDEAQRVFKSKTSKCDKS 325

RESULT 9  
US-09-837-867A-23  
Sequence 23, Application US/09837867A  
Patent No. US20020098542A1  
GENERAL INFORMATION:  
APPLICANT: Sharpe, Arlene H.  
APPLICANT: Borriello, Francescopaulo  
APPLICANT: Freeman, Gordon J.  
APPLICANT: Nadler, Lee M.

TITLE OF INVENTION: No. US20020098542A1 Forms of T Cell Costimulatory  
FILE OF INVENTION: Molecules and Uses Therefor  
FILE REFERENCE: BWI-120CPADV  
CURRENT APPLICATION NUMBER: US/09/837,867A  
CURRENT FILING DATE: 2001-04-17  
PRIOR APPLICATION NUMBER: 08/205,697  
PRIOR FILING DATE: 1994-03-02  
NUMBER OF SEQ ID NOS: 42  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 23  
LENGTH: 329  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-837-867A-23

Query Match 52.0%; Score 903; DB 9; Length 329;  
Best Local Similarity 58.5%; Pred. No. 6.1e-66;  
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;  
QY 7 TMGLSHTLLVMAALLSGVSSMKSQAYFNKTGELPCHFTNSQNSISLDELVVFWDQDKLV 66  
DB 6 TMGLSNILFVMAFLLSGAAPLKIQAIFYNETADLPQCFANSQNSLSLSELVVFWDQENLVL 65  
QY 67 YEIFRGENPQNVHLKYKRTSFDKDNWTLRLHNVOIKDGYHCFHYKGPGLVPMHQ 126  
DB 66 NEVYLKKEKFDVSHSKYMGRTSFDSDSWTLRLHNLIQDKGLYQCIHHKKPTGMIRIHQ 125  
QY 127 MSSDLVLANFSGPEITVTSNRNTENSGIINLTCSISQGYPEPKEMYFQNTENSTTKYDT 186  
DB 126 MNSLSVLANFSGPEIVPISNITENV-YINLTCSISGHGYPEPKKMSVLLRTRKNTSTIEDG 184  
QY 187 VMKKSQNVTELYNVSISLSPFSVPE-AHNVSVFCALKLETMLLSLPFNIDAQPKDKDP 245  
DB 185 IMQKSQNVTELYDVSISLSPFDPVTSNMFTICILETKTR-LLSSPFSIELE--DPQP 241  
QY 246 EQGHFLWIAAVLVMFVFCGMVSFKTLRK-RKKQKQPGSHECTIKRKESKQTNERP 304  
DB 242 PPDHPIWITAVLPT-VIICVMVFCILWKKKKRPNYSKCGTNTWREESQTKKREK 300  
QY 305 YHVPSRDEAQC-VNLTASGDKN 328  
DB 301 IHIPERSDEAQRVFKSKTSKCDKS 325

RESULT 10  
US-09-441-411-26  
Sequence 26, Application US/09441411  
Publication No. US20030008342A1  
GENERAL INFORMATION:  
APPLICANT: Scholler, Nathalie B.  
APPLICANT: Disis, Mary L.  
APPLICANT: Hellstrom, Ingegerd  
APPLICANT: Hellstrom, Karl Erik  
TITLE OF INVENTION: SURFACE RECEPTOR ANTIGEN VACCINES  
FILE REFERENCE: 730033.409  
CURRENT APPLICATION NUMBER: US/09/441,411  
CURRENT FILING DATE: 1999-11-16  
NUMBER OF SEQ ID NOS: 26  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 26  
LENGTH: 329  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-441-411-26

Query Match 52.0%; Score 903; DB 10; Length 329;  
Best Local Similarity 58.5%; Pred. No. 6.1e-66;  
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;  
QY 7 TMGLSHTLLVMAALLSGVSSMKSQAYFNKTGELPCHFTNSQNSISLDELVVFWDQDKLV 66  
DB 6 TMGLSNILFVMAFLLSGAAPLKIQAIFYNETADLPQCFANSQNSLSLSELVVFWDQENLVL 65





```
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: RPI-002CP2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 742-4214
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 329 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-350-202-4

Query Match      52.0%; Score 903; DB 10; Length 329;
Best Local Similarity 58.5%; Pred. No. 6.1e-66;
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;

QY 7 TMGLSHLLVMAALLSGVSMKQAYFNKGTGELPCHFTNSQNSLDELVVFWDQDKLV 66
DB 6 TMGLSNILFVMAFLLSGAAPLKIQAQVFNETADLPQCFANSONQSLSELVVFWDQENLV 65
QY 67 YEIFRGKENPQNVHLKYKGTSTFDKONWTLRLHNVOIKDKGTGTHCFHYKGPGLVPMHQ 126
DB 66 NEVYLGEKEDSVHVKYMGRTSFDSDSWTLRLHNLQIKDKGLYQCIHHKKPTGMIRHQ 125
QY 127 MSSDLSVLANFSQPEITVTSNRNTENSGIINLTCSISIQGYPEPKEMYFQMLNTENSTTKYDT 186
DB 126 MNSLSVLANFSQPEIVPISNITENV-YINLTCSISIHGYPEPKMSVLLRTKNSTIEYDG 184
QY 187 VMKQSNVTELYNVSISLSPFVPE-AHNVSFCAKLETLMLLSPNIDAPKDKOP 245
DB 185 IMQSQDNVTELYDVSISLSVSPDVTNSMTIFCILETDKTR-LLSPFSIELE--DPQP 241
QY 246 EQGHFLWIAAVLVMFVFCGMVSFKTLRK-RKKQKQPSHECETIKRERKESKQTVRVP 304
DB 242 PPHIPIWITAVLPT-VIIICVMVFCILILWKWKKKRPRNSYKCGTNTWREESQTKKREK 300
QY 305 YHVPERSDAQCV-NILKTASGDKN 328
DB 301 IHIPERSDAQRVFKSKTSKCDKS 325

RESULT 13
US-10-041-319-8
; Sequence 8, Application US/10041319
; Publication No. US20030180309A1
; GENERAL INFORMATION:
; APPLICANT: Immunex Corporation
; APPLICANT: Baum, Peter R.
; APPLICANT: DuBoise, Robert F.
; APPLICANT: Wiley, Steven R.
; TITLE OF INVENTION: HUMAN B7 POLYPEPTIDES
; FILE REFERENCE: 3176-A
; CURRENT APPLICATION NUMBER: US/10/041,319
; CURRENT FILING DATE: 2002-01-07
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 8
; LENGTH: 329
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-041-319-8

Query Match      52.0%; Score 903; DB 14; Length 329;
Best Local Similarity 58.5%; Pred. No. 6.1e-66;
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;

QY 7 TMGLSHLLVMAALLSGVSMKQAYFNKGTGELPCHFTNSQNSLDELVVFWDQDKLV 66
DB 6 TMGLSNILFVMAFLLSGAAPLKIQAQVFNETADLPQCFANSONQSLSELVVFWDQENLV 65
QY 67 YEIFRGKENPQNVHLKYKGTSTFDKONWTLRLHNVOIKDKGTGTHCFHYKGPGLVPMHQ 126
DB 66 NEVYLGEKEDSVHVKYMGRTSFDSDSWTLRLHNLQIKDKGLYQCIHHKKPTGMIRHQ 125
QY 127 MSSDLSVLANFSQPEITVTSNRNTENSGIINLTCSISIQGYPEPKEMYFQMLNTENSTTKYDT 186
DB 126 MNSLSVLANFSQPEIVPISNITENV-YINLTCSISIHGYPEPKMSVLLRTKNSTIEYDG 184
QY 187 VMKQSNVTELYNVSISLSPFVPE-AHNVSFCAKLETLMLLSPNIDAPKDKOP 245
DB 185 IMQSQDNVTELYDVSISLSVSPDVTNSMTIFCILETDKTR-LLSPFSIELE--DPQP 241
QY 246 EQGHFLWIAAVLVMFVFCGMVSFKTLRK-RKKQKQPSHECETIKRERKESKQTVRVP 304
DB 242 PPHIPIWITAVLPT-VIIICVMVFCILILWKWKKKRPRNSYKCGTNTWREESQTKKREK 300
QY 305 YHVPERSDAQCV-NILKTASGDKN 328
DB 301 IHIPERSDAQRVFKSKTSKCDKS 325

RESULT 14
US-10-390-330-4
; Sequence 4, Application US/10390330
; Publication No. US20040001829A1
; GENERAL INFORMATION:
; APPLICANT: June, Carl H.
; APPLICANT: Thompson, Craig B.
; APPLICANT: Nabel, Gary J.
; APPLICANT: Gray, Gary S.
; APPLICANT: Remmert, Paul D.
; TITLE OF INVENTION: Methods For Selectively Stimulating Proliferation
; TITLE OF INVENTION: Of T-Cells
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 State Street, Suite 510
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/390,330
; FILING DATE: March 17, 2003
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/435,816A
; FILING DATE: May 4, 1995
; CLASSIFICATION:
; APPLICATION NUMBER: US 08/403,253
; FILING DATE: 10 MARCH 1995
; APPLICATION NUMBER: US 08/253,964
; FILING DATE: 3 JUNE 1994
; APPLICATION NUMBER: US 08/073,223
; FILING DATE: 4 JUNE 1993
; APPLICATION NUMBER: US 08/200,947
; FILING DATE: 23 FEB 1994
; APPLICATION NUMBER: US 07/864,805
; FILING DATE: 7 APR 1992
; APPLICATION NUMBER: US 08/218,155
; FILING DATE: 25 MAR 1994
; APPLICATION NUMBER: US 07/864,807
; FILING DATE: 7 APR 1992
; APPLICATION NUMBER: US 07/902,467
; FILING DATE: 16 JUNE 1992
; APPLICATION NUMBER: US 07/275,433
```

;  
; FILING DATE: 23 NOV 1988  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Mandragouras, Amy E.  
; REGISTRATION NUMBER: 36,207  
; REFERENCE/DOCKET NUMBER: RPI-002CP3  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617) 227-7400  
; TELEFAX: (617) 227-5941  
; INFORMATION FOR SEQ ID NO: 4:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 329 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-10-390-330-4

Query Match 52.0%; Score 903; DB 15; Length 329;

Best Local Similarity 58.5%; Pred. No. 6.1e-66;

Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;

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QY 7 TWGLSHTLLVMALLLSGVSSMKSOAYFNKGTGELPCHFTNSQNSISLDELVVFQDQDKLVL 66
Db 6 TWGLSNILFVMAFLLSGAAPLKIQAYFNETADLPQCFANSONQSLSELVVFQDQENLVL 65
QY 67 YEIFRGKENPONVHLKYKRTSPDKDNWTLRLHNVQIKDGTGVCPIHYKGPGLVPMHQ 126
Db 66 NEVYLKKEKFDSDVHVKYMGRTSPDSDSWTLRLHNLQIKDGLYQCLIIHHKKTGMIRIHQ 125
QY 127 MSSDLSVLANFSQPEITVTNSRTNSGIINLTCSSTQGYPEPEKMYFQLTNENSTTKYDT 186
Db 126 MNSELVLANFSQPEIPIVPSNITENV-YINLTCSSTHGYPPEPKMSVLLRTKNSTIYDYG 184
QY 187 VMKKSQNNVTLYNYSISLPFSVPE-AHNVSVFCALKLETLEMLLSLPNIDAQPKDKDP 245
Db 185 IMQKSDQNVTELYDVSISLSVSPDVTNMTIFCILETDKTR--LLSSPFSIELE--DPOQ 241
QY 246 EQGHFWIAAALVMFVFCGMVSFKTLRK-RKKKOPGPSHECETIKRERKESKQTNERYVP 304
Db 242 PPDHPIWITAVLPT-VIICVMVFCILILWKWKKKRPRNSYKCGTNTMERERESEQTKKREK 300
QY 305 YHVPERSDAQCV-NILKTASGDKN 328
Db 301 IHIPERSDEAQRVFKSKTSKCDKS 325
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RESULT 15

US-10-643-768-23

; Sequence 23, Application US/10643768

; Publication No. US20040192899A1

; GENERAL INFORMATION:

; APPLICANT: Sharpe, Arlene H.

; APPLICANT: Borriello, Francescopaulo

; APPLICANT: Freeman, Gordon J.

; APPLICANT: Nadler, Lee M.

; TITLE OF INVENTION: Novel Forms of T Cell Costimulatory

; FILE REFERENCE: BHI-120CPADV

; CURRENT FILING DATE: 2003-08-18

; PRIOR FILING DATE: 2001-04-17

; PRIOR APPLICATION NUMBER: 08/205,697

; NUMBER OF SEQ ID NOS: 42

; SOFTWARE: FastSeq for Windows Version 4.0

; LENGTH: 329

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-643-768-23

Query Match

Best Local Similarity 52.0%; Score 903; DB 16; Length 329;

Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;

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Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;
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QY 67 YEIFRGKENPONVHLKYKRTSPDKDNWTLRLHNVQIKDGTGVCPIHYKGPGLVPMHQ 126
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Db 126 MNSELVLANFSQPEIPIVPSNITENV-YINLTCSSTHGYPPEPKMSVLLRTKNSTIYDYG 184
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Db 185 IMQKSDQNVTELYDVSISLSVSPDVTNMTIFCILETDKTR--LLSSPFSIELE--DPOQ 241
QY 246 EQGHFWIAAALVMFVFCGMVSFKTLRK-RKKKOPGPSHECETIKRERKESKQTNERYVP 304
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Search completed: August 17, 2005, 19:12:19

Job time : 164 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: August 17, 2005, 18:53:53 ; Search time 483 Seconds  
(without alignments)  
795.598 Million cell updates/sec

Title: US-09-303-510-6

Perfect score: 1737

Sequence: 1 MGICDTMGLSHTLLVMALL.....RSDEAQCIVILKTASGDKNQ 329

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 6959266 segs, 1168006243 residues

Total number of hits satisfying chosen parameters: 6959266

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Pending Patents\_AA Main:\*

- 1: /cgn2\_6/ptodata/1/paa/PTCUS COMB.pcp.\*
- 2: /cgn2\_6/ptodata/1/paa/US06 COMB.pcp.\*
- 3: /cgn2\_6/ptodata/1/paa/US07 COMB.pcp.\*
- 4: /cgn2\_6/ptodata/1/paa/US08 COMB.pcp.\*
- 5: /cgn2\_6/ptodata/1/paa/US08 COMB.pcp.\*
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- 36: /cgn2\_6/ptodata/1/paa/US08 COMB.pcp.\*
- 37: /cgn2\_6/ptodata/1/paa/US08 COMB.pcp.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	ID	Description
1	1737	100.0	329	14	US-09-071-699-6
2	1737	100.0	329	17	US-09-303-040-6
3	1737	100.0	329	17	US-09-303-510-6
4	1737	100.0	329	22	US-09-791-537-51999
5	1737	100.0	329	26	US-10-069-626-18
6	1736	99.4	332	14	US-09-062-597A-26
7	1736	99.4	332	20	US-09-646-561-26
8	1736	99.4	332	33	US-10-790-396-26
9	1372	79.0	329	14	US-09-062-597A-7
10	1372	79.0	329	20	US-09-646-561-7
11	1372	79.0	329	26	US-10-069-626-19
12	1372	79.0	329	33	US-10-790-396-7
13	1157.5	66.6	280	14	US-09-062-597A-17
14	1157.5	66.6	280	20	US-09-646-561-17
15	1157.5	66.6	280	22	US-09-791-537-37771
16	1157.5	66.6	280	33	US-10-790-396-17
17	1157	66.6	325	26	US-10-069-626-20
18	1157	66.6	330	23	US-09-868-605-14
19	943.5	54.3	330	22	US-09-791-537-10853
20	932	53.7	372	35	US-10-940-774-11132
21	903	52.0	329	1	PCT-US03-12946-2520
22	903	52.0	329	5	US-08-109-393-2
23	903	52.0	329	5	US-08-109-393A-2
24	903	52.0	329	5	US-08-147-773-2
25	903	52.0	329	6	US-08-280-757-2
26	903	52.0	329	9	US-08-592-711-4
27	903	52.0	329	15	US-09-183-055-4
28	903	52.0	329	17	US-09-349-915A-4
29	903	52.0	329	17	US-09-349-915B-4
30	903	52.0	329	17	US-09-350-202-4
31	903	52.0	329	19	US-09-553-865-4
32	903	52.0	329	19	US-09-565-316A-4
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36	903	52.0	329	25	US-09-962-969-23
37	903	52.0	329	25	US-09-962-969B-23
38	903	52.0	329	26	US-10-041-319-8
39	903	52.0	329	28	US-10-219-051B-10735
40	903	52.0	329	29	US-10-390-330-4
41	903	52.0	329	30	US-10-429-079B-2
42	903	52.0	329	32	US-10-643-768-23
43	903	52.0	329	33	US-10-756-783-6
44	903	52.0	329	33	US-10-762-128-26
45	903	52.0	329	33	US-10-767-561-2

ALIGNMENTS

RESULT 1  
US-09-071-699-6  
; Sequence 6: Application US/09071699A  
; GENERAL INFORMATION:  
; APPLICANT: Collisson, Ellen W  
; APPLICANT: Hash, Stephen M.  
; APPLICANT: Inou, Choji  
; TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CTLA-4 Nucleic Acid  
; TITLE OF INVENTION: And Polypeptides  
; FILE REFERENCE: 54954-A  
; CURRENT APPLICATION NUMBER: US/09/071,699A  
; CURRENT FILING DATE: 1998-05-01  
; NUMBER OF SEQ ID NOS: 55  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 6  
; LENGTH: 329  
; TYPE: PRT  
; ORGANISM: feline CD86  
US-09-071-699-6

Query Match 100.0%; Score 1737; DB 14; Length 329;  
Best Local Similarity 100.0%; Pred. No. 1.3e-157;  
Matches 329; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 MGICDSTMGSLHTLLVMALLSGVSSMKSQAYFNKGTGELPCHFTNSQNSLDELVVFWD 60

QY 61 QDKLVLYEYFRGKPNQVHLKYKRTSFDKDNWTLRLHNQIKDGTGTHCFIHYKPGK 120  
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QY 121 LVPMHQMSDLSVLANFSQPEITVTSNRTESSIGQYEPKEMFQNLNTENS 180  
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DB 181 TTKYDVTWKKSQNNVTLYNVSISLPFSVPEAHNVSVFCALKLETLEMLLSLPFNIDAQ 240

QY 241 KDKDPEQGHFLWIAAALVVMFVFCGMVSPKTLRKRKKQPGPSHECETIKRERKESKQTN 300  
DB 241 KDKDPEQGHFLWIAAALVVMFVFCGMVSPKTLRKRKKQPGPSHECETIKRERKESKQTN 300

QY 301 ERVPYHVPERSDEAQCQVNLKTAGSKNQ 329  
DB 301 ERVPYHVPERSDEAQCQVNLKTAGSKNQ 329

RESULT 2  
US-09-303-040-6  
; Sequence 6, Application US/09303040  
; APPLICANT: Winslow, Barbara J.  
; TITLE OF INVENTION: Recombinant Virus Expressing Foreign DNA Encoding  
; TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CD28, Feline CTLA-4 or  
; TITLE OF INVENTION: Feline Interferon-gamma And Uses Thereof  
; FILE REFERENCE: 54957-B  
; CURRENT APPLICATION NUMBER: US/09/303,040  
; PRIOR FILING DATE: 1999-04-30  
; PRIOR APPLICATION NUMBER: 60/083,870  
; NUMBER OF SEQ ID NOS: 82  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 6  
; LENGTH: 329  
; TYPE: PRT  
; ORGANISM: feline CD86  
US-09-303-040-6

Query Match 100.0%; Score 1737; DB 17; Length 329;  
Best Local Similarity 100.0%; Pred. No. 1.3e-157;  
Matches 329; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 MGICDSTMGSLHTLLVMALLSGVSSMKSQAYFNKGTGELPCHFTNSQNSLDELVVFWD 60

QY 61 QDKLVLYEYFRGKPNQVHLKYKRTSFDKDNWTLRLHNQIKDGTGTHCFIHYKPGK 120  
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QY 121 LVPMHQMSDLSVLANFSQPEITVTSNRTESSIGQYEPKEMFQNLNTENS 180  
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QY 181 TTKYDVTWKKSQNNVTLYNVSISLPFSVPEAHNVSVFCALKLETLEMLLSLPFNIDAQ 240  
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RESULT 3  
US-09-303-510-6  
; Sequence 6, Application US/09303510A  
; GENERAL INFORMATION:  
; APPLICANT: Collisson, Ellen W.  
; APPLICANT: Hash, Stephen M.  
; APPLICANT: Choi, InSoo  
; TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CD28, and Feline  
; TITLE OF INVENTION: CTLA-4 Nucleic Acid and Polypeptides  
; FILE REFERENCE: 54954  
; CURRENT APPLICATION NUMBER: US/09/303,510A  
; EARLIER FILING DATE: 1999-04-30  
; EARLIER APPLICATION NUMBER: 60/083,869  
; EARLIER FILING DATE: 1998-05-01  
; NUMBER OF SEQ ID NOS: 83  
; SOFTWARE: Patent In Ver. 2.1  
; SEQ ID NO 6  
; LENGTH: 329  
; TYPE: PRT  
; ORGANISM: Feline  
US-09-303-510-6

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Best Local Similarity 100.0%; Pred. No. 1.3e-157;  
Matches 329; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 61 QDKLVLYEYFRGKPNQVHLKYKRTSFDKDNWTLRLHNQIKDGTGTHCFIHYKPGK 120  
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QY 241 KDKDPEQGHFLWIAAALVVMFVFCGMVSPKTLRKRKKQPGPSHECETIKRERKESKQTN 300  
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QY 301 ERVPYHVPERSDEAQCQVNLKTAGSKNQ 329  
DB 301 ERVPYHVPERSDEAQCQVNLKTAGSKNQ 329

RESULT 4  
US-09-791-537-51999  
; Sequence 51999, Application US/09791537  
; GENERAL INFORMATION:  
; APPLICANT: Bionomix, Inc.  
; APPLICANT: Debe, Derek  
; APPLICANT: Danzer, Joseph  
; TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY MEMB  
; TITLE OF INVENTION: METHODS OF USE THEREOF  
; FILE REFERENCE: 261/210  
; CURRENT APPLICATION NUMBER: US/09/791,537  
; CURRENT FILING DATE: 2001-02-22  
; NUMBER OF SEQ ID NOS: 153055  
; SOFTWARE: Patent in version 3.0

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; LENGTH: 329
; TYPE: PRT
; ORGANISM: Felis catus
US-09-791-537-51999

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Best Local Similarity 100.0%; Pred. No. 1.3e-157;
Matches 329; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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; Sequence 18, Application US/10069626
; GENERAL INFORMATION:
; APPLICANT: Green et al.
; TITLE OF INVENTION: Polynucleotides Encoding Members of the Human B
; TITLE OF INVENTION: Lymphocyte Activation Antigen B-7 Family and
; FILE REFERENCE: 15966-562 NATL
; CURRENT FILING DATE: 2002-07-25
; PRIOR FILING DATE: 2000-08-31
; PRIOR APPLICATION NUMBER: PCT/US00/24220
; PRIOR FILING DATE: 2000-08-31
; PRIOR APPLICATION NUMBER: 60/152383
; PRIOR FILING DATE: 1999-09-03
; PRIOR APPLICATION NUMBER: 60/172909
; PRIOR FILING DATE: 1999-12-21
; PRIOR APPLICATION NUMBER: 60/183578
; PRIOR FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: 09/651200
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 18
; LENGTH: 329
; TYPE: PRT
; ORGANISM: Felis catus
US-10-069-626-18

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; SEQ ID NO 51999
; LENGTH: 329
; TYPE: PRT
; ORGANISM: Felis catus
US-09-791-537-51999

Query Match      100.0%; Score 1737; DB 22; Length 329;
Best Local Similarity 100.0%; Pred. No. 1.3e-157;
Matches 329; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 181 TTKYDVTVMKKSQNNVTLYNVSISLPSVPEAHNVSVFCALKLETLEMLLSLFPNIDA 240
DB 181 TTKYDVTVMKKSQNNVTLYNVSISLPSVPEAHNVSVFCALKLETLEMLLSLFPNIDA 240
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DB 241 KKDPEQGHFLWIAAVALVMFVFCGMVSFKTLRKRKKQPGPSHECETIKRERKESK 300
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DB 301 ERVPYHVPERSDEAQCWNILKTASGDKNQ 329

RESULT 6
US-09-062-597A-26
; Sequence 26, Application US/09062597A
; GENERAL INFORMATION:
; APPLICANT: Sim, Gek-Kee
; APPLICANT: Yang, Shumin
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY
; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES, AND
; TITLE OF INVENTION: USES THEREOF
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Carol Talkington Vereer, Ph.D.
; STREET: 1825 Sharp Point Drive
; CITY: Fort Collins
; STATE: Colorado
; COUNTRY: USA
; ZIP: 80525
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: WordPerfect for Windows, Version 7.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/062,597A
; FILING DATE: 17-APR-1998
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Vereer, Carol Talkington
; REGISTRATION NUMBER: 37,459
; REFERENCE/DOCKET NUMBER: IM-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 970/493-7272
; TELEFAX: 970/484-9505
; INFORMATION FOR SEQ ID NO: 26:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 332 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
US-09-062-597A-26

Query Match      99.4%; Score 1726; DB 14; Length 332;
Best Local Similarity 99.4%; Pred. No. 1.5e-156;
Matches 326; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGICDSTWGLSHLTLLVMALLSGVSSMKSOAYFNKTGELPCHFTNSQNSLDELVVFWD 60
DB 1 MGICDSTWGLSHLTLLVMALLSGVSSMKSOAYFNKTGELPCHFTNSQNSLDELVVFWD 60
QY 61 QDKLVLYEYIFRGKENPQNVHLKYGRTSFDKNWTLRLHNVQIKDKGTYHCFHYKGP 120
```

Db 61 QDKLVLYEIPRGKENPQNVHLKYKGRTSFDKDNWTLRLHNVOIKDKGTVCFIHYKPGK 120  
QY 121 LVPMHQSSDLSVLANFSQPEITVTSNRTENSIGIINLTCSIIQGYPEPKEMYFQNTENS 180  
Db 121 LVPMHQSSDLSVLANFSQPEITVTSNRTENSIGIINLTCSIIQGYPEPKEMYFQNTENS 180  
QY 181 TTKYDVTMKSQNNVTLYNVSISLPSFVPEAHNVSVFCALKLETLEMLLSLPFNIDAQ 240  
Db 181 TTKYDVTMKSQNNVTLYNVSISLPSFVPEAHNVSVFCALKLETLEMLLSLPFNIDAQ 240  
QY 241 KDKDPEQGHFLWIAAALVLMVFCGMVSPKTLRKRKKQPGPSHECETIKRERKESKQTN 300  
Db 241 KDKDPEQGHFLWIAAALVLMVFCGMVSPKTLRKRKKQPGPSHECETIKRERKESKQTN 300  
QY 301 ERVPYHVPSRDEAQCWNILKTASGDKN 328  
Db 301 ERVPYHVPSRDEAQCWNILKTASGDKS 328

RESULT 7

US-09-646-561-26  
; Sequence 26, Application US/09646561  
; GENERAL INFORMATION:  
; APPLICANT: Sim, Gek-Kee  
; APPLICANT: Yang, Shumin  
; APPLICANT: Sellins, Karen S.  
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC  
; FILE REFERENCE: IM-1-C1-PCT  
; CURRENT APPLICATION NUMBER: US/09/646,561  
; PRIOR FILING DATE: 2000-09-19  
; PRIOR FILING DATE: 1998-03-19  
; PRIOR FILING DATE: 1998-03-19  
; PRIOR FILING DATE: 1998-03-19  
; PRIOR FILING DATE: 1998-04-17  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 26  
; LENGTH: 332  
; TYPE: PRT  
; ORGANISM: Felis catus  
US-09-646-561-26

Query Match 99.4%; Score 1726; DB 20; Length 332;  
Best Local Similarity 99.4%; Pred. No. 1.5e-156;  
Matches 326; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGICDSTMGSLHTLLVMALLSGVSSMKSQAYFNKTGELPCHFTNSQNTSLDELVVFWD 60  
Db 1 MGICDSTMGSLHTLLVMALLSGVSSMKSQAYFNKTGELPCHFTNSQNTSLDELVVFWD 60  
QY 61 QDKLVLYEIPRGKENPQNVHLKYKGRTSFDKDNWTLRLHNVOIKDKGTVCFIHYKPGK 120  
Db 61 QDKLVLYEIPRGKENPQNVHLKYKGRTSFDKDNWTLRLHNVOIKDKGTVCFIHYKPGK 120  
QY 121 LVPMHQSSDLSVLANFSQPEITVTSNRTENSIGIINLTCSIIQGYPEPKEMYFQNTENS 180  
Db 121 LVPMHQSSDLSVLANFSQPEITVTSNRTENSIGIINLTCSIIQGYPEPKEMYFQNTENS 180  
QY 181 TTKYDVTMKSQNNVTLYNVSISLPSFVPEAHNVSVFCALKLETLEMLLSLPFNIDAQ 240  
Db 181 TTKYDVTMKSQNNVTLYNVSISLPSFVPEAHNVSVFCALKLETLEMLLSLPFNIDAQ 240  
QY 241 KDKDPEQGHFLWIAAALVLMVFCGMVSPKTLRKRKKQPGPSHECETIKRERKESKQTN 300  
Db 241 KDKDPEQGHFLWIAAALVLMVFCGMVSPKTLRKRKKQPGPSHECETIKRERKESKQTN 300  
QY 301 ERVPYHVPSRDEAQCWNILKTASGDKN 328  
Db 301 ERVPYHVPSRDEAQCWNILKTASGDKS 328

RESULT 9

US-10-790-396-26  
; Sequence 26, Application US/10790396  
; GENERAL INFORMATION:  
; APPLICANT: Sim, Gek-Kee  
; APPLICANT: Yang, Shumin  
; APPLICANT: Sellins, Karen S.  
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC  
; FILE REFERENCE: IM-1-C1-PCT  
; CURRENT APPLICATION NUMBER: US/10/790,396  
; CURRENT FILING DATE: 2004-03-01  
; PRIOR APPLICATION NUMBER: US/09/646,561  
; PRIOR FILING DATE: 2000-09-19  
; PRIOR APPLICATION NUMBER: 60/078,765  
; PRIOR FILING DATE: 1998-03-19  
; PRIOR APPLICATION NUMBER: 09/062,597  
; PRIOR FILING DATE: 1998-04-17  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 26  
; LENGTH: 332  
; TYPE: PRT  
; ORGANISM: Felis catus  
US-10-790-396-26

Query Match 99.4%; Score 1726; DB 33; Length 332;  
Best Local Similarity 99.4%; Pred. No. 1.5e-156;  
Matches 326; Conservative 2; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MGICDSTMGSLHTLLVMALLSGVSSMKSQAYFNKTGELPCHFTNSQNTSLDELVVFWD 60  
Db 1 MGICDSTMGSLHTLLVMALLSGVSSMKSQAYFNKTGELPCHFTNSQNTSLDELVVFWD 60  
QY 61 QDKLVLYEIPRGKENPQNVHLKYKGRTSFDKDNWTLRLHNVOIKDKGTVCFIHYKPGK 120  
Db 61 QDKLVLYEIPRGKENPQNVHLKYKGRTSFDKDNWTLRLHNVOIKDKGTVCFIHYKPGK 120  
QY 121 LVPMHQSSDLSVLANFSQPEITVTSNRTENSIGIINLTCSIIQGYPEPKEMYFQNTENS 180  
Db 121 LVPMHQSSDLSVLANFSQPEITVTSNRTENSIGIINLTCSIIQGYPEPKEMYFQNTENS 180  
QY 181 TTKYDVTMKSQNNVTLYNVSISLPSFVPEAHNVSVFCALKLETLEMLLSLPFNIDAQ 240  
Db 181 TTKYDVTMKSQNNVTLYNVSISLPSFVPEAHNVSVFCALKLETLEMLLSLPFNIDAQ 240  
QY 241 KDKDPEQGHFLWIAAALVLMVFCGMVSPKTLRKRKKQPGPSHECETIKRERKESKQTN 300  
Db 241 KDKDPEQGHFLWIAAALVLMVFCGMVSPKTLRKRKKQPGPSHECETIKRERKESKQTN 300  
QY 301 ERVPYHVPSRDEAQCWNILKTASGDKN 328  
Db 301 ERVPYHVPSRDEAQCWNILKTASGDKS 328

RESULT 9

US-09-062-597A-7  
; Sequence 7, Application US/09062597A  
; GENERAL INFORMATION:  
; APPLICANT: Sim, Gek-Kee  
; APPLICANT: Yang, Shumin  
; APPLICANT: Sellins, Karen S.  
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY  
; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES, AND  
; TITLE OF INVENTION: US\$ THEREOF  
; NUMBER OF SEQUENCES: 29  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Carol Talkington Verser, Ph.D.  
; ADDRESS: Heska Corporation  
; STREET: 1825 Sharp Point Drive  
; CITY: Fort Collins  
; STATE: Colorado  
; COUNTRY: USA  
; ZIP: 80525

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: Windows 95  
SOFTWARE: WordPerfect for Windows, Version 7.0  
CURRENT APPLICATION DATA: US/09/062,597A  
APPLICATION NUMBER: 17-APR-1998  
FILING DATE: 17-APR-1998  
CLASSIFICATION: 514  
ATTORNEY/AGENT INFORMATION:  
NAME: Verser, Carol Talkington  
REGISTRATION NUMBER: 37,459  
REFERENCE/DOCKET NUMBER: IM-1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 970/493-7272  
TELEFAX: 970/484-9505  
INFORMATION FOR SEQ ID NO: 7:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 329 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: Protein  
US-09-062-597A-7

Query Match 79.0%; Score 1372; DB 14; Length 329;  
Best Local Similarity 81.7%; Pred. No. 1.7e-122;  
Matches 263; Conservative 22; Mismatches 35; Indels 2; Gaps 2;  
QY 7 TMGLSHLLVWALLLSGVSSMKSOAYFNKTGELPCHFTNSQNSISLDELVVFVWQDDKLV 66  
DB 6 TMELNNILFWMTLLLYGAASMKSOAYFNKTGELPCHFTNSQNSISLDELVVFVWQDDKLV 65  
QY 67 YEIFRGKENPQNVHLKYKGRTSFDKDNWTLRLHNVOIKDKGTYHCFHYKPGKGLVPMHQ 126  
DB 66 YELYRGKENPQNVHRKYKGRTSFDKDNWTLRLHNVOIKDKGTYHCFHYKPGKGLVPMHQ 125  
QY 127 MSSDLSVLNFSQPEITVTSNRTENSIGIINLTCSISQGYPEPKEMFQNLNTENSTTKYDT 186  
DB 126 MNSDLSVLNFSQPEIMVTSNRTENSIGIINLTCSISQGYPEPKEMFQNLNTENSTTKYDT 185  
QY 187 VMKKSQNNVTLYNVSISLPSFVPEAHNVSVFCAKLETLEMLLSLPFNIDAQPKDKPE 246  
DB 186 VMKKSQNNVTLYNVSISLPSFVPEAHNVSVFCAKLETLEMLLSLPFNIDAQPKDKPE 243  
QY 247 QGHFLWIAAALVLMVILCGWVFLTLRKRKKKQPGPSHECETIKRERKESKQTNERPYPH 306  
DB 244 GDHILWIAAALVLMVILCGWVFLTLRKRKKKQPGPSHECETIKRERKESKQTNERPYPH 303  
QY 307 VPERDEAQCWNILKTASGDKN 328  
DB 304 ETERSDEAQCWNISKTASGDNS 325

RESULT 10  
US-09-646-561-7  
Sequence 7, Application US/09646561  
GENERAL INFORMATION:  
APPLICANT: Sim, Gek-Ke  
APPLICANT: Yang, Shumin  
APPLICANT: Sellins, Karen S.  
TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC  
FILE OF INVENTION: ACID MOLECULES, AND USES THEREOF  
FILE REFERENCE: IM-1-C1-PCT  
CURRENT APPLICATION NUMBER: US/09/646,561  
CURRENT FILING DATE: 2000-09-19  
PRIOR APPLICATION NUMBER: 60/078,765  
PRIOR FILING DATE: 1998-03-19  
PRIOR APPLICATION NUMBER: 09/062,597  
PRIOR FILING DATE: 1998-04-17  
NUMBER OF SEQ ID NOS: 65  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 7  
LENGTH: 329

TYPE: PRT  
ORGANISM: Canis familiaris  
US-09-646-561-7  
Query Match 79.0%; Score 1372; DB 20; Length 329;  
Best Local Similarity 81.7%; Pred. No. 1.7e-122;  
Matches 263; Conservative 22; Mismatches 35; Indels 2; Gaps 2;  
QY 7 TMGLSHLLVWALLLSGVSSMKSOAYFNKTGELPCHFTNSQNSISLDELVVFVWQDDKLV 66  
DB 6 TMELNNILFWMTLLLYGAASMKSOAYFNKTGELPCHFTNSQNSISLDELVVFVWQDDKLV 65  
QY 67 YEIFRGKENPQNVHLKYKGRTSFDKDNWTLRLHNVOIKDKGTYHCFHYKPGKGLVPMHQ 126  
DB 66 YELYRGKENPQNVHRKYKGRTSFDKDNWTLRLHNVOIKDKGTYHCFHYKPGKGLVPMHQ 125  
QY 127 MSSDLSVLNFSQPEITVTSNRTENSIGIINLTCSISQGYPEPKEMFQNLNTENSTTKYDT 186  
DB 126 MNSDLSVLNFSQPEIMVTSNRTENSIGIINLTCSISQGYPEPKEMFQNLNTENSTTKYDT 185  
QY 187 VMKKSQNNVTLYNVSISLPSFVPEAHNVSVFCAKLETLEMLLSLPFNIDAQPKDKPE 246  
DB 186 VMKKSQNNVTLYNVSISLPSFVPEAHNVSVFCAKLETLEMLLSLPFNIDAQPKDKPE 243  
QY 247 QGHFLWIAAALVLMVILCGWVFLTLRKRKKKQPGPSHECETIKRERKESKQTNERPYPH 306  
DB 244 GDHILWIAAALVLMVILCGWVFLTLRKRKKKQPGPSHECETIKRERKESKQTNERPYPH 303  
QY 307 VPERDEAQCWNILKTASGDKN 328  
DB 304 ETERSDEAQCWNISKTASGDNS 325

RESULT 11  
US-10-069-626-19  
Sequence 19, Application US/10069626  
GENERAL INFORMATION:  
APPLICANT: Green et al.  
TITLE OF INVENTION: Polynucleotides Encoding Members of the Human B  
TITLE OF INVENTION: Lymphocyte Activation Antigen B-7 Family and  
TITLE OF INVENTION: Polypeptides Encoded Thereby  
FILE REFERENCE: 15966-562 NATL  
CURRENT APPLICATION NUMBER: US/10/069,626  
CURRENT FILING DATE: 2002-07-25  
PRIOR APPLICATION NUMBER: PCT/US00/24220  
PRIOR FILING DATE: 2000-08-31  
PRIOR APPLICATION NUMBER: 60/152383  
PRIOR FILING DATE: 1999-09-03  
PRIOR APPLICATION NUMBER: 60/172909  
PRIOR FILING DATE: 1999-12-21  
PRIOR APPLICATION NUMBER: 60/183578  
PRIOR FILING DATE: 2000-02-18  
PRIOR APPLICATION NUMBER: 09/651200  
PRIOR FILING DATE: 2000-08-30  
NUMBER OF SEQ ID NOS: 25  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 19  
LENGTH: 329  
TYPE: PRT  
ORGANISM: Canis familiaris  
US-10-069-626-19

Query Match 79.0%; Score 1372; DB 26; Length 329;  
Best Local Similarity 81.7%; Pred. No. 1.7e-122;  
Matches 263; Conservative 22; Mismatches 35; Indels 2; Gaps 2;  
QY 7 TMGLSHLLVWALLLSGVSSMKSOAYFNKTGELPCHFTNSQNSISLDELVVFVWQDDKLV 66  
DB 6 TMELNNILFWMTLLLYGAASMKSOAYFNKTGELPCHFTNSQNSISLDELVVFVWQDDKLV 65  
QY 67 YEIFRGKENPQNVHLKYKGRTSFDKDNWTLRLHNVOIKDKGTYHCFHYKPGKGLVPMHQ 126  
DB 66 YELYRGKENPQNVHRKYKGRTSFDKDNWTLRLHNVOIKDKGTYHCFHYKPGKGLVPMHQ 125

QY 127 MSSDLVLANFSPQPEITVTSNRNTEGSIINLTCSISQGYPEPKEMYFQNLNTENSTTKYDT 186  
Db 126 MNSDLVLANFSPQPEITVTSNRNTEGSIINLTCSISQGYPEPKEMYFQNLNTENSTTKYDT 185  
QY 187 VMKKSQNNVTLYNVSISLPSFSPVPEAHNVSVFCAKLEMLELLSLPFNIDAPKDKDPE 246  
Db 186 VMKKSQNNVTLYNVSISLPSFSPVPEAHNVSVFCAKLEMLELLSLPFNIDAPKDKDPE 243  
QY 247 QGHFLMIAAVLVMVVFVCGMVSFKTLRKRRKKQPGPSHECETIKRKRKESKOTNERVPYH 306  
Db 244 GDHILMTAALLVMLVILCGMVFFTLRKRRKKQPGPSHECETIKRKRKESKOTNERVPYH 303  
QY 307 VPERDEAOCVNILKTASGDN 328  
Db 304 ETERSDEAOCVNISKTAGSDNS 325

RESULT 12

US-10-790-396-7  
; Sequence 7, Application US/10790396  
; GENERAL INFORMATION:  
; APPLICANT: Sim, Gek-Kee  
; APPLICANT: Yang, Shumin  
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY  
; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF  
; FILE REFERENCE: IM-1-CI-PCT  
; CURRENT APPLICATION NUMBER: US/10790,396  
; CURRENT FILING DATE: 2004-03-01  
; PRIOR APPLICATION NUMBER: US/09/646,561  
; PRIOR FILING DATE: 2000-09-19  
; PRIOR APPLICATION NUMBER: 60/078,765  
; PRIOR FILING DATE: 1998-03-19  
; PRIOR APPLICATION NUMBER: 09/062,597  
; PRIOR FILING DATE: 1998-04-17  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 7  
; LENGTH: 329  
; TYPE: PRT  
; ORGANISM: Canis familiaris  
US-10-790-396-7

Query Match 79.0%; Score 1372; DB 33; Length 329;  
Best Local Similarity 81.7%; Pred. No. 1.7e-122;  
Matches 263; Conservative 22; Mismatches 35; Indels 2; Gaps 2;

QY 7 TMGLSHTLLVMALLSGVSSMKSQAYFNKTGELPCHFTNSQNSISLDELVVFQDQDKLVL 66  
Db 6 TMELNILLFVMTLLLYGAASMKSQAYFNKTGELPCHFTNSQNSISLDELVVFQDQDKLVL 65  
QY 67 YEIFRGKENPQNVHLKYKRTSFDKDNWTLRLHNVQIKDGTGTHYKPGKGLVPMHQ 126  
Db 66 YELYRGKENPQNVHRKYKRTSFDKDNWTLRLHNIQIKDKGLYQCFVHHKPGKGLVPMHQ 125  
QY 127 MSSDLVLANFSPQPEITVTSNRNTEGSIINLTCSISQGYPEPKEMYFQNLNTENSTTKYDT 186  
Db 126 MNSDLVLANFSPQPEITVTSNRNTEGSIINLTCSISQGYPEPKEMYFQNLNTENSTTKYDT 185  
QY 187 VMKKSQNNVTLYNVSISLPSFSPVPEAHNVSVFCAKLEMLELLSLPFNIDAPKDKDPE 246  
Db 186 VMKKSQNNVTLYNVSISLPSFSPVPEAHNVSVFCAKLEMLELLSLPFNIDAPKDKDPE 243  
QY 247 QGHFLMIAAVLVMVVFVCGMVSFKTLRKRRKKQPGPSHECETIKRKRKESKOTNERVPYH 306  
Db 244 GDHILMTAALLVMLVILCGMVFFTLRKRRKKQPGPSHECETIKRKRKESKOTNERVPYH 303  
QY 307 VPERDEAOCVNILKTASGDN 328  
Db 304 ETERSDEAOCVNISKTAGSDNS 325

RESULT 13

US-09-062-597A-17  
; Sequence 17, Application US/09062597A  
; GENERAL INFORMATION:  
; APPLICANT: Sim, Gek-Kee  
; APPLICANT: Yang, Shumin  
; APPLICANT: Sellins, Karen S.  
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY  
; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES, AND  
; NUMBER OF INVENTION: USES THEREOF  
; NUMBER OF SEQUENCES: 29  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Carol Talkington Verser, Ph.D.  
; ADDRESSEE: Heaska Corporation  
; STREET: 1825 Sharp Point Drive  
; CITY: Fort Collins  
; STATE: Colorado  
; COUNTRY: USA  
; ZIP: 80525  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: Windows 95  
; SOFTWARE: WordPerfect for Windows, Version 7.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/062,597A  
; FILING DATE: 17-APR-1998  
; CLASSIFICATION: 514  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Verser, Carol Talkington  
; REGISTRATION NUMBER: 37,459  
; REFERENCE/DOCKET NUMBER: IM-1  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 970/493-7272  
; TELEFAX: 970/484-9505  
; INFORMATION FOR SEQ ID NO: 17:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 280 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: Protein  
US-09-062-597A-17

Query Match 66.6%; Score 1157.5; DB 14; Length 280;  
Best Local Similarity 70.8%; Pred. No. 6e-102;  
Matches 228; Conservative 19; Mismatches 24; Indels 51; Gaps 2;

QY 7 TMGLSHTLLVMALLSGVSSMKSQAYFNKTGELPCHFTNSQNSISLDELVVFQDQDKLVL 66  
Db 6 TMELNILLFVMTLLLYGAASMKSQAYFNKTGELPCHFTNSQNSISLDELVVFQDQDKLVL 65  
QY 67 YEIFRGKENPQNVHLKYKRTSFDKDNWTLRLHNVQIKDGTGTHYKPGKGLVPMHQ 126  
Db 66 YELYRGKENPQNVHRKYKRTSFDKDNWTLRLHNIQIKDKGLYQCFVHHKPGKGLVPMHQ 125  
QY 127 MSSDLVLANFSPQPEITVTSNRNTEGSIINLTCSISQGYPEPKEMYFQNLNTENSTTKYDT 186  
Db 126 MNSDLVLANFSPQPEITVTSNRNTEGSIINLTCSISQGYPEPKEMYFQNLNTENSTTKYDT 185  
QY 187 VMKKSQNNVTLYNVSISLPSFSPVPEAHNVSVFCAKLEMLELLSLPFNIDAPKDKDPE 246  
Db 186 VMKKSQNNVTLYNVSISLPSFSPVPEAHNVSVFCAKLEMLELLSLPFNIDAPKDKDPE 234  
QY 247 QGHFLMIAAVLVMVVFVCGMVSFKTLRKRRKKQPGPSHECETIKRKRKESKOTNERVPYH 306  
Db 235 -----ETNKVERKESQTKERVYH 254  
QY 307 VPERDEAOCVNILKTASGDN 328  
Db 255 ETERSDEAOCVNISKTAGSDNS 276

RESULT 14





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GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: August 17, 2005, 18:54:53 ; Search time 70 Seconds  
(without alignments)  
729.917 Million cell updates/sec

Title: US-09-303-510-6  
Perfect score: 1737  
Sequence: 1 MGLSDTMGLSHTLLWALL.....RSDEAQCYNILKTASGDKNQ 329

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 715561 seqs, 155301442 residues

Total number of hits satisfying chosen parameters: 715561

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Pending Patents AA New.\*

- 1: /cgn2\_6/ptodata/2/paa/pct\_NEW\_COMB.pep.\*
- 2: /cgn2\_6/ptodata/2/paa/US06\_NEW\_COMB.pep.\*
- 3: /cgn2\_6/ptodata/2/paa/US07\_NEW\_COMB.pep.\*
- 4: /cgn2\_6/ptodata/2/paa/US08\_NEW\_COMB.pep.\*
- 5: /cgn2\_6/ptodata/2/paa/US09\_NEW\_COMB.pep.\*
- 6: /cgn2\_6/ptodata/2/paa/US10\_NEW\_COMB.pep.\*
- 7: /cgn2\_6/ptodata/2/paa/US11\_NEW\_COMB.pep.\*
- 8: /cgn2\_6/ptodata/2/paa/US60\_NEW\_COMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1157	66.6	330	7	US-11-170-797-14
2	932	53.7	372	6	US-10-940-774A-11132
3	903	52.0	329	1	PCT-US05-18790-57
4	898	51.7	323	1	PCT-US05-18790-55
5	898	51.7	323	6	US-10-998-526-5
6	898	51.7	323	7	US-11-027-053-4
7	898	51.7	323	7	US-11-120-927-16
8	898	51.7	323	7	US-11-170-797-3
9	743.5	42.8	351	6	US-10-960-855-18
10	687.5	39.6	219	7	US-11-120-927-22
11	640.5	36.9	309	7	US-11-170-797-10
12	229.5	13.2	306	5	US-09-890-729A-9
13	229.5	13.2	314	7	US-11-170-797-8
14	213	12.3	288	1	PCT-US05-18790-53
15	213	12.3	288	7	US-11-027-053-2
16	213	12.3	288	7	US-11-120-927-15
17	213	12.3	288	7	US-11-170-797-1
18	203	11.7	283	1	PCT-US04-19179-4
19	203	11.7	283	1	PCT-US04-19179-6
20	203	11.7	283	6	US-10-871-696-4
21	203	11.7	283	6	US-10-871-696-6
22	200.5	11.5	216	6	US-10-461-000-23
23	200.5	11.5	226	7	US-11-120-927-21
24	197.5	11.4	224	6	US-10-998-526-4
25	192	11.1	271	1	PCT-US05-15207-1602

26 192 11.1 282 6 US-10-184-644-218 Sequence 218, App  
27 192 11.1 282 6 US-10-192-007-218 Sequence 218, App  
28 192 11.1 282 6 US-10-063-653A-60 Sequence 60, Appl  
29 192 11.1 282 6 US-10-063-652A-60 Sequence 60, Appl  
30 192 11.1 282 6 US-10-180-554-218 Sequence 218, App  
31 192 11.1 282 6 US-10-063-560-60 Sequence 60, Appl  
32 192 11.1 282 6 US-10-063-738A-60 Sequence 60, Appl  
33 192 11.1 282 6 US-10-179-524-218 Sequence 218, App  
34 192 11.1 282 6 US-10-063-727A-60 Sequence 60, Appl  
35 192 11.1 282 6 US-10-063-638A-60 Sequence 60, Appl  
36 192 11.1 282 6 US-10-063-639A-60 Sequence 60, Appl  
37 192 11.1 282 7 US-11-050-926-348 Sequence 348, App  
38 192 11.1 282 7 US-11-120-927-5 Sequence 5, Appl  
39 192 11.1 282 7 US-11-154-939-1625 Sequence 1625, Ap  
40 192 11.1 282 7 US-11-167-575-1625 Sequence 60, Appl  
41 192 11.1 282 7 US-11-102-240-60 Sequence 60, Appl  
42 192 11.1 282 7 US-11-103-195-60 Sequence 60, Appl  
43 192 11.1 282 7 US-11-101-316-60 Sequence 60, Appl  
44 192 11.1 282 7 US-11-102-284-60 Sequence 60, Appl  
45 188.5 10.9 227 7 US-11-120-927-19 Sequence 19, Appl

## ALIGNMENTS

## RESULT 1

US-11-170-797-14  
; Sequence 14, Application US/11170797  
; GENERAL INFORMATION:  
; APPLICANT: Lechler, Robert  
; APPLICANT: Rogers, Nicholas  
; APPLICANT: Dordling, Anthony  
; APPLICANT: ML Laboratories PLC  
; TITLE OF INVENTION: IMPROVEMENT OF TOLERANCE TO A ZENOGRAPH  
; FILE REFERENCE: 5585-59112-02  
; CURRENT APPLICATION NUMBER: US/11/170,797  
; PRIOR FILING DATE: 2005-06-28  
; PRIOR APPLICATION NUMBER: US 09/868,605  
; PRIOR FILING DATE: 2001-06-19  
; PRIOR APPLICATION NUMBER: PCT/GB99/04200  
; PRIOR FILING DATE: 1999-12-17  
; PRIOR APPLICATION NUMBER: 9827921.9  
; PRIOR FILING DATE: 1998-12-19  
; PRIOR APPLICATION NUMBER: 9925015.1  
; PRIOR FILING DATE: 1999-10-23  
; NUMBER OF SEQ ID NOS: 39  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 14  
; LENGTH: 330  
; TYPE: PRT  
; ORGANISM: Porcus spp  
US-11-170-797-14

Query Match 66.6%; Score 1157; DB 7; Length 330;

Best Local Similarity 70.1%; Pred. No. 2.9e-80;  
Matches 227; Conservative 35; Mismatches 56; Indels 6; Gaps 5;

QY 8 MGLSHTLLWALLSGVSSMKSQAYENKTGELPCHFTNSQNSLDELVFWQDDKLVLV 67  
DB 1 MGLSNTLFYMWLLSGLSAAKLSQAYFNETGELPCHFTNSQNSLDELVFWQDDNLVLV 60  
QY 68 EIFRGKENPQVHLKYKGRTSFDKDNWTLRLHNQVQKDKGTGTHCFHYKGPGLVPMHQM 127  
DB 61 ELYRGQEKPHNVNSKNYKGRTSFDQATWTLRLHNQVQKDKGSYQCFIHHKPGHLVPHQM 120  
QY 128 SSDLSVLNFSQFEITVTSNRNTNSGIIINLTSSIQGYPEPKEMYFQALNTENSTTKYDVT 187  
DB 121 SSDLSVLNFSQFEINLLNHTENS-VINLTCSSTQGYPEPKEMYMLLNTKSTTEHDAD 179  
QY 188 MKKSQNNVTLENVNLSLSPFSVPEAHNVFCAKLETLEMLL-SLPFNIDAPKDKDPE 246  
DB 180 MKKSQNNITELNVNVSIRVSLPIPETNVSVICVLQLEPSKTLFLSLPCNIDAKPPVQPPV 239





QY 8 MGLSHTLLVMALLSGVSSMKSOAYFNKGTGELPCHFTNSQNI SLDELVVFWDQDKLVLY 67  
Db 1 MGLSNILFVMAFLLSGAAPLKI QAYFNETADLP CQFANSQNSLSLVVFWDQDENLVN 60  
QY 68 EIFRGKENPQNVHLKYGRTSPDKNWTLLRLHNVOIKDKGTYHCFHYKGPGLVPMHOM 127  
Db 61 EYVLGKEKFDPSVHSGYMGRTSPDSWTLRLHNLQIKDKGLYQCI IHHKPTGMIRIHO 120  
QY 128 SSDLSVLNFSQPEITVTNSRTNSGIINLTCSIOGYPEPKMYFQNLATNSSTTKYDVT 187  
Db 121 NSLSVLNFSQPEIVPISNITENV-YINLTCSIHGYPEPKMVSLLRTKNSSTIYDGI 179  
QY 188 MKSQNNVTLYNVISLPSVPE-AHNVSVCALKLETMLSLPFDIDAPQDKDPE 246  
Db 180 MOKSQDNVTLYDVSI SLSPFVDSWTLRLHNLQIKDKGLYQCI IHHKPTGMIRIHO 236  
QY 247 QGHFLWIAAVLVFMVFCGMVSFKTLRK-RKKQPGPSHECETIKRERKESQTNRPVY 305  
Db 237 PDHIPWITAVLPT-VIICVMVFCILWKKKRPNSYKCGTNTWRESEBQTKREKI 295  
QY 306 HYPERSDEAQC-V-NILKTASGDKN 328  
Db 296 HIPERSDEAQRVFKSKTSCKDS 319

## RESULT 8

US-11-170-797-3  
; Sequence 3, Application US/11170797  
; GENERAL INFORMATION:  
; APPLICANT: Lechler, Robert  
; APPLICANT: Rogers, Nichola  
; APPLICANT: Dorling, Anthony  
; APPLICANT: ML Laboratories PLC  
; TITLE OF INVENTION: IMPROVEMENT OF TOLERANCE TO A ZENOGRAPH  
; FILE REFERENCE: 5585-59112-02  
; CURRENT APPLICATION NUMBER: US/11/170,797  
; PRIOR FILING DATE: 2005-06-28  
; PRIOR APPLICATION NUMBER: US 09/868,605  
; PRIOR FILING DATE: 2001-06-19  
; PRIOR APPLICATION NUMBER: PCT/GB99/04200  
; PRIOR FILING DATE: 1999-12-17  
; PRIOR APPLICATION NUMBER: 9827921.9  
; PRIOR FILING DATE: 1998-12-19  
; PRIOR APPLICATION NUMBER: 9925015.1  
; PRIOR FILING DATE: 1999-10-23  
; NUMBER OF SEQ ID NOS: 39  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 3  
; LENGTH: 323  
; TYPE: PRT  
; ORGANISM: Homo sapiens

## US-11-170-797-3

Query Match 51.7%; Score 898; DB 7; Length 323;  
Best Local Similarity 58.3%; Pred. No. 1.4e-60;  
Matches 189; Conservative 44; Mismatches 83; Indels 8; Gaps 7;  
QY 8 MGLSHTLLVMALLSGVSSMKSOAYFNKGTGELPCHFTNSQNI SLDELVVFWDQDKLVLY 67  
Db 1 MGLSNILFVMAFLLSGAAPLKI QAYFNETADLP CQFANSQNSLSLVVFWDQDENLVN 60  
QY 68 EIFRGKENPQNVHLKYGRTSPDKNWTLLRLHNVOIKDKGTYHCFHYKGPGLVPMHOM 127  
Db 61 EYVLGKEKFDPSVHSGYMGRTSPDSWTLRLHNLQIKDKGLYQCI IHHKPTGMIRIHO 120  
QY 128 SSDLSVLNFSQPEITVTNSRTNSGIINLTCSIOGYPEPKMYFQNLATNSSTTKYDVT 187  
Db 121 NSLSVLNFSQPEIVPISNITENV-YINLTCSIHGYPEPKMVSLLRTKNSSTIYDGI 179  
QY 188 MKSQNNVTLYNVISLPSVPE-AHNVSVCALKLETMLSLPFDIDAPQDKDPE 246  
Db 180 MOKSQDNVTLYDVSI SLSPFVDSWTLRLHNLQIKDKGLYQCI IHHKPTGMIRIHO 236

QY 247 QGHFLWIAAVLVFMVFCGMVSFKTLRK-RKKQPGPSHECETIKRERKESQTNRPVY 305  
Db 237 PDHIPWITAVLPT-VIICVMVFCILWKKKRPNSYKCGTNTWRESEBQTKREKI 295  
QY 306 HYPERSDEAQC-V-NILKTASGDKN 328  
Db 296 HIPERSDEAQRVFKSKTSCKDS 319

## RESULT 9

US-10-960-855-18  
; Sequence 18, Application US/10960855  
; GENERAL INFORMATION:  
; APPLICANT: ALBANI, SALVATORE  
; TITLE OF INVENTION: METHODS FOR ISOLATION, QUANTIFICATION, CHARACTERIZATION  
; FILE REFERENCE: AND-1001-CP2  
; CURRENT APPLICATION NUMBER: US/10/960,855  
; CURRENT FILING DATE: 2004-10-06  
; PRIOR APPLICATION NUMBER: 60/510,645  
; PRIOR FILING DATE: 2003-10-10  
; PRIOR APPLICATION NUMBER: 09/756,983  
; PRIOR FILING DATE: 2001-01-09  
; PRIOR APPLICATION NUMBER: 09/421,506  
; PRIOR FILING DATE: 1999-10-19  
; PRIOR APPLICATION NUMBER: PCT/US99/2466  
; PRIOR FILING DATE: 1999-10-19  
; PRIOR APPLICATION NUMBER: 60/105,018  
; PRIOR FILING DATE: 1998-10-20  
; NUMBER OF SEQ ID NOS: 24  
; SOFTWARE: PatentIn Ver. 3.3  
; SEQ ID NO 18  
; LENGTH: 351  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
; OTHER INFORMATION: fusion construct with human and bacterial  
; OTHER INFORMATION: sequences

## US-10-960-855-18

Query Match 42.8%; Score 743.5; DB 6; Length 351;  
Best Local Similarity 61.3%; Pred. No. 8.7e-49;  
Matches 149; Conservative 32; Mismatches 57; Indels 5; Gaps 4;

QY 8 MGLSHTLLVMALLSGVSSMKSOAYFNKGTGELPCHFTNSQNI SLDELVVFWDQDKLVLY 67  
Db 1 MGLSNILFVMAFLLSGAAPLKI QAYFNETADLP CQFANSQNSLSLVVFWDQDENLVN 60  
QY 68 EIFRGKENPQNVHLKYGRTSPDKNWTLLRLHNVOIKDKGTYHCFHYKGPGLVPMHOM 127  
Db 61 EYVLGKEKFDPSVHSGYMGRTSPDSWTLRLHNLQIKDKGLYQCI IHHKPTGMIRIHO 120  
QY 128 SSDLSVLNFSQPEITVTNSRTNSGIINLTCSIOGYPEPKMYFQNLATNSSTTKYDVT 187  
Db 121 NSLSVLNFSQPEIVPISNITENV-YINLTCSIHGYPEPKMVSLLRTKNSSTIYDGI 179  
QY 188 MKSQNNVTLYNVISLPSVPE-AHNVSVCALKLETMLSLPFDIDAPQDKDPE 246  
Db 180 MOKSQDNVTLYDVSI SLSPFVDSWTLRLHNLQIKDKGLYQCI IHHKPTGMIRIHO 236  
QY 247 QGH 249  
Db 237 PDH 239

## RESULT 10

US-11-120-927-22  
; Sequence 22, Application US/11120927  
; GENERAL INFORMATION:  
; APPLICANT: Chen, Lieping  
; TITLE OF INVENTION: B7-H3 AND B7-H4, NOVEL IMMUNOREGULATORY  
; TITLE OF INVENTION: MOLECULES



APPLICANT: Rogers, Nicholas  
APPLICANT: Dorling, Anthony  
APPLICANT: ML Laboratories PLC  
TITLE OF INVENTION: IMPROVEMENT OF TOLERANCE TO A ZENOGRAPH  
FILE REFERENCE: 5585-59112-02  
CURRENT APPLICATION NUMBER: US/11/170,797  
CURRENT FILING DATE: 2005-06-28  
PRIOR APPLICATION NUMBER: US 09/868,605  
PRIOR FILING DATE: 2001-06-19  
PRIOR APPLICATION NUMBER: PCT/GB99/04200  
PRIOR FILING DATE: 1999-12-17  
PRIOR APPLICATION NUMBER: 9827921.9  
PRIOR FILING DATE: 1998-12-19  
PRIOR APPLICATION NUMBER: 9925015.1  
PRIOR FILING DATE: 1999-10-23  
NUMBER OF SEQ ID NOS: 39  
SOFTWARE: Patent in Ver. 2.1  
SEQ ID NO 8  
LENGTH: 314  
TYPE: PRT  
ORGANISM: Mus musculus  
US-11-170-797-8

Query Match 13.2%; Score 229.5; DB 7; Length 314;  
Best Local Similarity 24.6%; Pred. No. 9.6e-10;  
Matches 79; Conservative 57; Mismatches 128; Indels 57; Gaps 12;

QY 14 LLYVALLLVSSVSMKSOAYFNKGE---LPCHFTNSQNSISLDELVFWQDQDKLYEYF 70  
DB 32 LFVLLRLSQVSDVDPEQLSKVDKVLPCRY-NSPHEDESDRIYQKHDKVIL-SVI 89  
QY 71 RGENPONVHLKYGRTPDKDNTLRLHNVOIKDKGTGTHCFHYKGPGLVPMQSSD 130  
DB 90 AGK---LKWPEYKRNLYDNTYSLILGLVLSDRGTSCVVKKRGTYEVKHLALVK 146  
QY 131 LSVLANFSOPEITVTSNRNTENSGIINLTCSIOGYPEPKEMYFQNLNTE---NSTTKYDT 186  
DB 147 LSIKADFTENITESGNPSADTK--RITCFASGGFPKPRFVSWLENGRELPGINTTI--- 200  
QY 187 VMKKSQNNVTLYNVSISLPFSVPEAHNVSVFCAKLETLEMLLSLPFNIDAQPKDPE 246  
DB 201 ---SQDPESELYTISQDFTNTRNHTIK--CLIKYG--DAHVEDFTWEKPEPDPDS 252  
QY 247 Q-----GHFLMTAAVLVFMVFCGMVSF-KTLRKKKQPGPSHECETIKRERKES 296  
DB 253 KNTLVLFAGFGAVITVVVILVKFC-----KHSRCFRNEAS 292  
QY 297 KOTNERVPYHVPERSDEAQC 317  
DB 293 RETNNSLTFG-PEEALAEQTV 312

RESULT 14  
PCT-US05-18790-53  
Sequence 53, Application PC/TUS0518790  
GENERAL INFORMATION:  
APPLICANT: PRESIDENT AND FELLOWS OF HARVARD COLLEGE  
TITLE OF INVENTION: METHODS OF MODULATING THE REPRODUCTIVE ENDOCRINE SYSTEM  
FILE REFERENCE: HUI-055PC  
CURRENT APPLICATION NUMBER: PCT/US05/18790  
PRIOR APPLICATION NUMBER: 2005-06-06  
PRIOR FILING DATE: 2004-05-28  
NUMBER OF SEQ ID NOS: 99  
SOFTWARE: Patent in 3.3  
SEQ ID NO 53  
LENGTH: 288  
TYPE: PRT  
ORGANISM: Homo sapiens  
PCT-US05-18790-53

Query Match 12.3%; Score 213; DB 1; Length 288;

Best Local Similarity 27.3%; Pred. No. 1.6e-08;  
Matches 82; Conservative 48; Mismatches 116; Indels 54; Gaps 14;

QY 9 GLSHLLVNMALLLVSSVSMKSOAYFNKGTGELPCHFTNSQNSISLDELV---VFWQDQDKLV 65  
DB 27 GLSH-----FCSGVHVTKEV--KEVATLSC---GHNVSVEELAQTRIYQKEKKW 73  
QY 66 LYEIPRGKENPONVHLKYGRTPD-KONWTLRLHNVOIKDKGTGTHCFHYKGPGLVPM 124  
DB 74 LTTM-----SGDMNIWPEYKRNRTIFDTNNLSIVILALRPSDEGTVECVVLKYEKDAFKRE 129  
QY 125 HQMSSDLSVLANSOPEITVTSNRNTENSGIINLTCSIOGYPEPKEMYF---QLNTENS 180  
DB 130 HLAEVTLSVKADFPPTPSISDFEIPISN--IRRIICSTSGGFPPEHLSWLENGEELNAIN 187  
QY 181 TTKYDTVMKKSQNNVTLYNVSISLPFSVPEAHNVSVFCAKLETLEMLLSLPFNIDAQ 240  
DB 188 TV-----SQDPELEYAVSSKLDFTNNTNH--SFMCLIKYGHLLR--VNQTFNWNNTTK 235  
QY 241 KDKDPEQGHFLW---IAAVLVMFVFCGMVSF-KTLRKKKQPGPSHECETIKRERKES 296  
DB 236 QEHFPDNLPSWAITLISVNGIFVICCLTYCFAPRCRERRNE-----RLRRES 284

RESULT 15  
US-11-027-053-2  
Sequence 2, Application US/11027053  
GENERAL INFORMATION:  
APPLICANT: Newell, Martha K.  
TITLE OF INVENTION: METHODS AND PRODUCTS RELATED TO  
TITLE OF INVENTION: METABOLIC INTERACTIONS IN DISEASE  
FILE REFERENCE: V0139/7028/HK  
CURRENT APPLICATION NUMBER: US/11/027,053  
CURRENT FILING DATE: 2004-12-30  
PRIOR APPLICATION NUMBER: US/09/277,575  
PRIOR FILING DATE: 1999-03-26  
PRIOR APPLICATION NUMBER: U.S. 60/082,250  
PRIOR FILING DATE: 1998-04-17  
PRIOR APPLICATION NUMBER: U.S. 60/094,519  
PRIOR FILING DATE: 1998-07-29  
PRIOR APPLICATION NUMBER: U.S. 60/101,560  
PRIOR FILING DATE: 1998-09-24  
NUMBER OF SEQ ID NOS: 13  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 2  
LENGTH: 288  
TYPE: PRT  
ORGANISM: Homo Sapiens  
US-11-027-053-2

Query Match 12.3%; Score 213; DB 7; Length 288;  
Best Local Similarity 27.3%; Pred. No. 1.6e-08;  
Matches 82; Conservative 48; Mismatches 116; Indels 54; Gaps 14;

QY 9 GLSHLLVNMALLLVSSVSMKSOAYFNKGTGELPCHFTNSQNSISLDELV---VFWQDQDKLV 65  
DB 27 GLSH-----FCSGVHVTKEV--KEVATLSC---GHNVSVEELAQTRIYQKEKKW 73  
QY 66 LYEIPRGKENPONVHLKYGRTPD-KONWTLRLHNVOIKDKGTGTHCFHYKGPGLVPM 124  
DB 74 LTTM-----SGDMNIWPEYKRNRTIFDTNNLSIVILALRPSDEGTVECVVLKYEKDAFKRE 129  
QY 125 HQMSSDLSVLANSOPEITVTSNRNTENSGIINLTCSIOGYPEPKEMYF---QLNTENS 180  
DB 130 HLAEVTLSVKADFPPTPSISDFEIPISN--IRRIICSTSGGFPPEHLSWLENGEELNAIN 187  
QY 181 TTKYDTVMKKSQNNVTLYNVSISLPFSVPEAHNVSVFCAKLETLEMLLSLPFNIDAQ 240  
DB 188 TV-----SQDPELEYAVSSKLDFTNNTNH--SFMCLIKYGHLLR--VNQTFNWNNTTK 235  
QY 241 KDKDPEQGHFLW---IAAVLVMFVFCGMVSF-KTLRKKKQPGPSHECETIKRERKES 296  
DB 236 QEHFPDNLPSWAITLISVNGIFVICCLTYCFAPRCRERRNE-----RLRRES 284



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Job time : 71 secs

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